

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
10934	41302	A	10996	219	688	RRMHAYVSLDPLERPPFFFFFLF FFFFFFFFLRRSFALVAQAGVHW RDLGSPQPPPPRFK*FSCLSLPSS WNYRHAPPRPANFVFLVETGL QLPTSGDLPASASQSVGITGVS HCAWPGNWLLKETRCGSSVGR QITGPITPDWVDPGIPDRYLQ
10935	41303	A	10997	3	298	FFFFFLRQSFALVAQAGVQWRD LCSPQPPPPRFK*FSCLSLPSSW NYRHGPPHPANF*FLVEMEFH HVGQACLKLLPSGDPPALASQS AGITGVSHRA
10936	41304	A	10998	2	438	APSVRSGNERDLARDEEAQETQ VRGCHASGGCTPAATAGASPP AWAGRRGTGQRLRSQPRQTGR QPPRVQPLAPPPGAPAPLPNPQ NCRKTRSHPRFWAGTLAPGPC PGLWCLPGLVQVDVLAAGRCD HLSCLPPLCPQAFLL
10937	41305	A	10999	2856	3044	GAATGEGGCCRLPGHPALAST A*AIPCRGPRVQETSPPPVLGW DPGSRAMSRAVFAWVGAG
10938	41306	A	11000	1	908	GLGDPGVPVLRSGGLGPPADLK GDQAVAE*LHEASGVTEHHPS AQPGPGGEEAAEPAHLIV*EPEG GSPGHPGGGPGHPG*SEGPAGG KPGPAGGGSAAQGCRRSSEPSGT *SGRSPR*GPHGHPDCRTHPAR EGAQVHSRSPLPGGAPVRRGCS QGPEQRLQQEDFLRVQQLSAA GPLRPQLYPQVWLCPDHQLLE QYPRSYFSEIDVFKPCGVQQG CPVLDRASSKISPEDAAGSVVR LRSLWAASGLQQGASGLATFL QLLTCGVLWPDEELVHLLLDE VVASAALRCDPDPVPMEPTCG

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10939	41307	A	11001	218	990	VLQLLKAMRLELFLPPGGFMV LLASGVKLQTFATQVPSWLHP VDPSPGLEVELPASPVQCAHTP QPLGGRWDWVPWSRGQRSSG RLGPHGSPWRRWEAQAWQPA GPKPCPVGS*GPVRNRGQRRW AGTAGDPVHPPQPLAQVLSPSL PGADRAGQLLRVQGPSPCPPG TPAGPQGRCAAPVPTGVSPSTP PCKLREQAPALASPERGSHSAA VG*RAPQVLPKW*PELMFRWV RSFFLLVGSWLTSGVKLHPFVV SVTALKGDASGVIPSSRWVHGL AGLRCEAADLRDSGAQLASPS GSLTRTGGAACQSRAVCPHSS AFGWSMGLGAMEQGAALIGEA RASREPMEEVGGSGMAACRSQ ALPRGQLRPSEKSRAAPVGWH CWGPSTPSAATGPGAKPLIARG RQGRPAAQSAGPAKPMPTRNSS WPARAVRSPGSHWRLSLHTSL QAERAGSGLGQPRKGLPQCSSG LKGSSSAKVVAQAEAAQRAS EGCEDYLARCHLSIRKMRRRN
10940	41308	A	11002	3	644	EPPGPTGPPSPQSPWHPGLPGR WSSTHVVFTHLHLAGPGWSCD HRWMGKQLPVSLASGVQGV RFRSQDMYQSSRNKFPSCAAH VPQEWAVPWKNQGNTHQSSRP SESGCCAQAEQSNQCHQRQEA AGPSRLSLPDGRRLETPRHPN GPWYWNNSPQRLN*WRRGDPS WPEPQKPHGTGGARVPACQRR EICLSPFRGPRRRQKENIYEYL
10941	41309	A	11003	202	438	FHGHAPGEMRGWPRVTKRSP AQSGKT\HFPPGSPGPPDTSTESI FRAWKAPGFPGRGRTADPET ARCGAWDEIVEPV
10942	41310	A	11004	520	1094	GPLSQCPPLPRLPPLGVYSKGR APHADTHSPGHRRTAHAHAQPA AAAATATR*QRRRRLPPRTPF RRPAARPD RRVP AHSSAVLPRP GKPGAFQALRKMDSDVDSGGP GEPGGKLG FARLRRAPPDRLPG CPSSHSFQTQSLSFMAHNVDEP LESATSLLGLLRRSWFCFTWQK QTVYWSTGRIRHSGEK
10943	41311	A	11005	1	138	SISLMNIDVKILNKILANQIQQH RKLIHHD*VGFIPCLRILVIYI

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10944	41312	A	11006	65	297	NQRLPQPFLPTTPPPATRAT*D EEKSPYPGPGSDKKCPTLQLPSP PTPSAGGFPLGESGSPGGLVK AQIMEGISM
10945	41313	B	11007	322	6900	
10946	41314	A	11008	3	215	
10947	41315	A	11009	1	234	
10948	41316	A	11010	149	300	
10949	41317	B	11011	28	162	
10950	41318	A	11012	700	861	RRKCIPGRRNSKHKGPDGAGRP *VCREQQEQCAWTGYPGAQG PDPYCGKGPPYS
10951	41319	A	11013	291	744	LKRTKCDQLLKTSLDLGRGPI LKWLCTSKWGHQQIIIRA*GTE YKTTSFFFFFETASRLCHPGWE CSGAISAHS*FLLPGSCHSPASA S*VAVTTDTREHAQLIFF*HFSR DGFHVVARWLDLLTCDLPLSL QVLGYRNYIIIVRQLPSR
10952	41320	A	11014	139	414	SFKTAPPGFFFSF*LHLILMLKFT PGAIKLVFL/QFLLGISFFFLGKP PSSWFRNESCSVFRKESSQSWQ GRAHVWG*SDPWSSGRSRAH L
10953	41321	A	11015	5	565	VHTTEATCTTTGAKPCPWPSKL ATRQDHSVLSNSTNPRGPTPHKS GSPETAGALSSGDAGSRGEGPR TVSSERSSPGKGGSTLLGTTA*G PGPAHFASAVLGPSSKSLQAAS *EVDSFPSSLLKTA VSVLASTVR LSVSFMPPFITVSVTSSVISASSS PSELASMATLPGASG*AARAVN FELDEE
10954	41322	A	11016	188	515	SQTVSIVGELPIPRKRCEIGIWD AQKR/CPRLTGPWATISVPTISK KATGN/PQHNPNHPRARYQINAE *WKVHF*TNDRPSHECPCTLV VHRTLQDLRHKSSTSGGKTHG
10955	41323	A	11017	80	397	SVQRSVDHL*DHP*TSVDWELY LDGSSFANPCKVTLKTTTSPAS VTPEADWSMHSQSMRNSLRDS FSLKFGLIIHDFLTPTFNPLENP CGFLTRFCCVPNQISS
10956	41324	A	11018	104	392	PSQFHLKLLHMLALLYPVGTC QVKDSSLLQKSTSVPPDSPQTG H\$KLGPFNPGRFR*RPQCQPGV LPPDVELSCHSWSNVLWTTAA KTPIFCSY

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10957	41325	A	11019	125	1404	NLALGMAMWNRPCQRLPQQP LVAEPTAEGEPHLPTGRELTEA NRFAYAALCGISLSQLFPEPEHS SFCTEFMAGLVKWLELSEA VLP TMTAFASGLGGEGTDVSVQTL LKDPILKDDPTVITQDLLSFSLK DGHYDARARVLVCHMTSLLQV PLEELDVLEEMFLESLKEIKEEE SEMAEASRKKKENRRKWRYL LIGLATVGGGTVIGVTGGLAAP LVAAGAATIIGSAGAAALGSAA GIAIMTSLFGAAGAGLTGYKM KKRVGAIEEFTFLPLTEGRQLHI TIAVTGWLASGKYRTFSAPWA ALAHSREQYCLAWAKYLMEL GNALETILSGLANMVAQEALK YTVLSGIVAALTWPASLLSVAN VIDNPWGVCLHRSAEVGKHLA HILLSRQQGRRPVTLIGFSLGAR VIYFCLQEMAQEK
10958	41326	A	11020	3	1693	CQRLPQQPLVAEPTAEGEPHLPT GRELTEANRFAYAALCGISLS QLFPEPEHR*VLLSCPLGTPVGL HSDAHYGQRLAVAVHVEGTLP FTSSTFAAASVFQKARPWQHPG EQMAFSGKPFLVAAVTSAGGS GAPSVGCTELISTSVLGYHTAL EMAGLVQWLELSEA VLPTMTA FASGLGGEGADV FVQILLKDPI LKDDPTVITQVHPTPGVKDGKL IF*ARVLVCHMTSLLQVPLEEL DVLEEMFLESLKEIKEEES*ES PATKTEGGGEDKDRKHPLMGD KMTESKTDLWIYEMGNAGVLL FRRYLWLQPKKENRRKWKR YLLIGLATVGGGTVIGESS*RCA PLVAAGAATIIGSAGAAALGSA AGIAIMTSLFGAAGAGLTGKVQ KE*VGAIEEFTFLPLTEGRQLHI TIAVTGWLASGKYREDQEDQA ALAHSREQYCLAWAKYLMEL GNALETILSGLANMVAQEALK YTVLSGKCPHLPWPASLLSVAN VIDNPWGVCLHRSAEVGKHLA HILLSRQQVPGNGCVIGFSLGA RVIYFCLQEMAQEKGEHGLL
10959	41327	A	11021	208	324	VSLKAADNWL VNSYPFCNSV SSEFFFR*IRDFFLFWIH
10960	41328	A	11022	1265	1459	
10961	41329	C	11023	188	730	

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10962	41330	A	11024	64	228	QHLLRRWGRSGLLLNDR*VSN EIKMEINKFIELNNNSDTIYQTL WDTANTVLKFM
10963	41331	A	11025	1	648	
10964	41332	A	11026	26	613	VGAGGRGWRFAAAVRRRAAGG GLRPGPAPGPRAGGGGPRGAH LALLRRAGALRAGKEYGKADA RWVYFDPTIVSVEILAVLDVS LALFLIYAIVKEKYRHFQITL CVCELYGCWMTFLPEWAHPEA PNLQQPATGWLYWLGFTLFFF* RCVGFILIPRNWLLWAVHGPRTS RKWHQKGNQFQWKEVFSGTF
10965	41333	A	11027	2	252	ARGRAGVAGGPR*AAELPGLP RDPFPASRPLRRSDCLGGLIRHK PPDPGAGARVEGEALPSWSPGG ALEEGVT*PGTRGPPWE
10966	41334	A	11028	3	637	RDQVRRGQGGEPRARIQCPRRRL GEGPGAPNRLGPPARDPRCSPW PRADSPRDPNRLSSPQLPRPAYL GPACFP*PSWGVSRSLPSLAPW RPHRLPDSQRFPNGGSRSRATS GSWTWKSKECREWRPSGSRGT RGSSGSGAGSSGSSAGVGRRAG HGRWHLR*GPLFPAAPASATCP LWHGWKGASLDLGLQPWATF YPRVTGARGGRTLGP
10967	41335	A	11029	158	462	
10968	41336	A	11030	339	866	QICHSPPGNKAHSHLLPYQTPV PSSQYPPSPSRTLQLPFPTWNP CQWPSRGSCGPSAVGTGPPFPT GIPSP*APSARG*HHSSACGCH PGCAGPQPARSHPGAPASGCH TVSGCCHALLQSCLAPGRPSPA GTWPHPPPGLPSAPGTEPCTA FEGFQPPCWLSQHPLSPCL
10969	41337	A	11031	621	944	TPQGGTAPSGGRHPWASASPHR LPPL*CSARPGCH/SSRMRSPGT RPSGPLAQDCHPPRPQTPHAGS HHTSAPQAPAGTF**RQRVAPG SSCWHL PQSWSCSAWLGGC
10970	41338	A	11032	3	257	AGRASKGG*NPSKAVQGSVPG AEGSPPEGCGQGAGLGLPGA RQDCSRA*QHPPGPGGGQEVY LDISLAPGSTGIQGLEAKHL
10971	41339	A	11033	94	227	SSYVFKSILTAFGMTWMRLETII LSEVTQG*KTKHQMFSLICGS

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10972	41340	A	11034	404	894	FVYFFRGELCKISSTLGFKGTGQ GLQPSKVS**VPSRPAGNGRPA YPETSQPPPGPSGG*HWWLAGW Q*GGPEPGWTCIWP*GS*GTEIG SPSQPGPEPAGVPSPRDAGSAA TGCHTGLAGVWVPPRLCHRRV TDGRKSMKRCLSRSYCTSSVRA SGGGAGRIT
10973	41341	A	11035	1	408	
10974	41342	A	11036	68	204	SFLWHPLGLHFHHTHH***NYKS SSK*MVRIRVTFSKFIFVRNNYC
10975	41343	A	11037	5	188	PQCRLLHLRQGLALSPKLECSSAI TAHCSLELPGSSNPSSASRF*GS RSVAQAGVQQCYHSSLQPRTP GVKQSSLSFPFLRLQPKVSSATL PVRLQE
10976	41344	A	11038	1	263	
10977	41345	A	11039	2	283	
10978	41346	A	11040	1	1965	MAAENEASQESALGAYSPVDY MSITSFPRLPEDEPAPAAPLRGR KDEDAFLGDPDTGEAR*PRPCP ALGSPRSSFFCVKHPGSPLRETR KDPFSAAAAECSCRQDGLTVIV TACLTATGVTVALVMQIYFG DPQVRGTNGEGEETGEWVG* CLRNCGKGSSVDAAVAAALCL GIVAPHSSGLGG*GAVEVGVPPQ AYFLPPGL*ASCAARALREETL QRSWETKVGTLVRRESSGESLF IALLLTQALIC*VLAQDGFNVT HDLGQWGLGIWERHEVDGEG* NL*DLEPPPLPGSLLHRPDLAEV LDVLGTSGPAAFYAGGNLTLE MVAEVSARVVRVGACPKVPIA GHPRPHFFGVYRGDLSPGSQGP PSGEASQSMATSFWPFNLTSLV SREQALHWVAEVRLTRLPFPGF KDIRSGEIGYCHRADDMLRWV LGRTWGLQRQRWVWGKGQEK SSYELDGAPTAQVLIMGPDDF IVAMVRYASSDSEPGTRDPLNQ EGVGAG*RFSPWNRTANHSAPS LVGFASLLSWGP*GL*VGGAM AWLPLCGTYLALGANGAARGL SGLTQVRFTPWLAFSSREPSCG LDCRCLS*QSNLLQVDSECRAE TSWGGHRDR*RKDSSQGCPWV HGSRRTNFNIIAVKDPRSPDAA

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10979	41347	A	11041	1	363	SSMTTVHATTATQKTVGETLA* LLQNIIPVSTSVAEAMGKVIPEP DKRLTGMAFCVPHTNMLVVAL ICHLQKAAKYDGMRRRCFNATT GITFNGHFVRLLSWDEFGSSNR VVDLMVHTASKE
10980	41348	A	11042	162	303	CLLLKSCSQEAAAALALPALGL VFDVFL*1YFVRTKYLRVGFRN FF
10981	41349	C	11043	56	118	
10982	41350	C	11044	345	410	
10983	41351	C	11045	7	439	
10984	41352	A	11046	2	80	
10985	41353	B	11047	205	5326	
10986	41354	A	11048	1	813	
10987	41355	A	11049	1	1454	
10988	41356	A	11050	2	1624	
10989	41357	A	11051	1	1185	
10990	41358	A	11052	1	2149	MKEKMLRAAREKGRVTHK GK PIRLTADLSAETPQARREWGPIF NILKEKNFQPRISYPDKLSFISEG EIKYFTDKQMLRDFVTTTRPVLK ELLKEALNMERNNWWYQPLQKH AKNMPNSIILIPKPGRDTTKKEN FRPISLMNIDAKILNKILANRIQ QHIKKLIHHDQVGFIQGMQGWFF NIHKSINVIQHINRTIDKNHMIIS IDAEKAFDKIQQLFMLKTLNKL GIDGTYLKIRIKYLGILQLTREVK DLFKENYKPLLNEIKEDTNKW KNIPCSWVGRINIMKMAILPKVI YRFNAISNKLPMFTFFTELEKTTL NFIWNQKRARIAKSILSQKNKA GGITLPDFKQYYKATVTKTAW YWYQNRDIDQWNRTEPSEITPH IYTYLIFDKPEKNKQWGKDSLF NKWCWENWLAVCRKLKLDPF LTPYTKJNSRWIKDLNVRPKTIK TLEEILGITIQDTGMGKDFMSKT PKAMATKAKIDKWDQIKLKSF CTAKETTIRVNRQPTKWEKIFA TYSSDKGLIFRIYNELKQIYKKK TNNPIKKWAKDMNRPFSKEDIY AAKKYMKKCSPSLAIREMQIKT TMRYHLTPVRMAIHKSGNNR QTESQIMSELPITIAASKRIKYLGI QLTKDVKDLFKENYKPLLNEIK EDTNKWKNIPCSWIGRINIVKM AILPKPTNVHVTNLAAQDTTAL EAAQISLEGHPQEKEISVTAMPL
10991	41359	A	11053	1	2031	

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10992	41360	A	11054	1	1188	
10993	41361	C	11055	1	353	
10994	41362	B	11056	151	1608	
10995	41363	A	11057	1	373	
10996	41364	B	11058	1	488	
10997	41365	A	11059	1	1257	
10998	41366	A	11060	2	3527	
10999	41367	A	11061	1	2373	
11000	41368	A	11062	1	1755	
11001	41369	A	11063	1	1599	
11002	41370	B	11064	220	1286	
11003	41371	A	11065	1	1826	
11004	41372	A	11066	1	1645	MDKFLDITYLPRLNQEEVESLN RPITGAEIVAIINSLPTKKSPGPD GFTAIFYQRLISNFSKVSQYRIN VQES\QAFLYTINRQTESQIMSA LPLTIASKRIKYLGIQLTRDVKD LFKENYKPLLNEIKEDTNKWK NIPCSWVGRINILKMAILPKNW KKTTLKFIWNHHRACIAKSILS QRNKAGGITLPDFELYYKATVT KTAWYWYQNRDIDQWNRTEP SEITPHIYNHMIFDKPDKNKKW GNDSLFDKWCWENWLAICRKL KLDPFLTPYTKINSRWIKDLNV RPKTIKTLEESLGNTIQDIGIGK DFMSKTSKAMTTKAKIDKWDL IKLKSFCTAKETTIRVNRQPT WENIFAIYSSDKGLISRIYKELK QIYKKKTNNPIKKWAKDMNRH FSKEDIYAAKHKMKCSSSLAI REMQIKTTMRYHLTPVRMAIK KSGNNRTRENYFKIHMESKKSQ NSQGNRKEKEQSWRHATRLQ TIVQGYTVAKTACYWYKNRPT DQSNRTENQEIRLHTYNHLIFD KPKDSNGETTPYSINGARJTG
11005	41373	A	11067	1961	2588	KLAQDRDALSPPLLFNIVLEVL ARAIRQEKEIKGIQLGKEEVKLS LFADDMIVYLENPIVSAQNLLK LISNFSKVSQYKINQKSQAFL YTNNRQTESQTMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLNEIK\EDTNKWKWNIPCSWV GRINIVKMAILPKVMYRFNAIP IKLPMTVFTELEKNYFKVHMGT KKEPASPSQS
11006	41374	A	11068	2	278	
11007	41375	A	11069	3	274	

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11008	41376	A	11070	261	1382	LELSFPPAGQRGVLSGDPQNLC TCPSGSWHVPRCWAVERQRPN LPRTVTQLVAEDGSRVYVVG AHFSDDSKRDVVKVSAATHIP DTGWCKLLPGSRDGLVRFPTY RVSMMLKMDSTLLREAQELSLE KLQQA VRQVRSGQGSGSGSG SKPPHITEQLGMAPGGEFREA KEVGTG*GRGWPQCGSQAVT FKRAIAALSFQKVR LAWGLC FLSDPIR*GCP RDPGRPAGWSV GMAEMIGEF PDLHRTIVSERDV YLT YMLRQAARRLELPRASDG DGRPQAWDPL*G*GPRGHVPGI EKNWSTD LNIQEIMT*VPAPPC KPHPTSPQVA AFFGLLGYSLYW MGRRTASLVLSPAAQYCLQR
11009	41377	A	11071	3	506	KDCQF*VGPEQKALYKVHAPI QAALQLGPYE*ADQKRTCVR GRHTCETA AFTFWKSLGLDKV TKPRSSSSQLLALAIRSSPGSTT DACLLDSFSGKSRISSWFGS
11010	41378	A	11072	2	374	IRRESTHLQQALGTTTPQDR LTC TGHS AQPPAC SASPLPPGPP*SS AWPLPPSTRLARQKQAAATAQ P*PLTTQTLGPWSSASTWTS AH KQPGAAAQEW TSTAGSRQLLA GASGSSPSSCSVWTN
11011	41379	A	11073	3	553	
11012	41380	A	11074	239	547	GHHFQMN VVCRCSVWMLSLEP HPVGQIHSC**ERAKLCGKEFN RMHNL MGHMHLHSDSKPFKCL YCPSKFTLKG NLTRHMKVKHG VMERGLHSQVSRPSLEA
11013	41381	A	11075	1	267	MAISMV TTRSTTIRTTAAGCHY ENDMAHNHSDRGGLPLKVVL T TPFLT PPGKGGGAAGALERRTE EGDRDAGGAAQEGGLTPTSVP PSS*HTLWLR TVDPEASTSPSTP RHPYPNRGGGGRALEPHPRR*V *AGCHYENDMAHNHSDRGGLP LKVVLTTPFLT PPGKGGGAAGA LERRTEEGDRDAGGAAQEGGL TPTSVPSS
11014	41382	A	11076	1	1707	
11015	41383	A	11077	1	1407	

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11016	41384	A	11078	1	1275	MVKGSIQQEELTILKIYAPNTG APRFIKQVLSDLQRDLDSHTIM TGFNTPLSTSDRSTRQKVND IQELNSALHQADLIDIYRTLHPK STEYTFFSAPHRTYSIIDLIGGSK ALLSKCKRIEITTNCLSDHSAIK LELRIKKLTQNRSTTWQLNNLL LNDYWVHNEMKAEIKMFFETN ENKDDTTYQNLWDTFKAVCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQKTIQKISESRSWFF EKINKIDRLLARLIKKKREKNQI DAIKNDQGDITTLERVVLEEPD TLHLLNYTPRKVLRYRWNQSS TSVIETNKTSVELSLPFDDEDYIIE IKPFSDGGDGSSEQIRIPKIS/NK KTK*PNPWRQK*G**LAVADA YARGSGASTSNACTLSAISTI
11017	41385	A	11079	1	426	MLHTKQHLMSGTEDMDDKLH FSDCSAASLVSLSTTTGGHVL NMSADIARYLPVLYRWNQSS TSVIETNKTSVELSLPFDDEDYIIE IKPFSDGGDGSSEQIRIPKISNA *ARGSGASTPNACALSAISRIMI SLTARSSL
11018	41386	A	11080	3	620	DRTLAEAPHTAPARSGHRGWC PRPHRRRRNRGRQLLAPGRGA DPGAGEAATVQWRLLRGQPAA ALHVQQGAGDAANAGLQRGA HADSHDRAVPAGHAPGPVAAA GRGHDGQVPAALG*AGGPVGL RRPEPPLQTRGKRLAPATQQV GQARRLPTGRGQLLLRRPQPAA HHGPRPRLGGRGRGGSHKSPPH GIWPRLAGWRATLE
11019	41387	A	11081	335	640	PLGVLWSLWKSLVHSDAGAGE L*EVITGSTWPNP*QCCLVPNV DDEEEGEEQDDDDDEEEGL*D IDEEGDEDEGEEEDDDVVEEG EEDEGEDDWKFAKE
11020	41388	A	11082	2	204	

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11021	41389	A	11083	3	1471	SKDTRKRDVDSKSPGMPLFEAE GVLSRTQIFPTTIKVIDPEFLEEP PALAFLYKDLYEAVGEKKKE EETASEGDSVNSEASFPSRNSDT DDGTGIYFEKYILKDDILHDTSL TQKDQGGGLEEKRVGKDDSYQ PIAAEGEIWKGFGTICREKSLEE PKGVIYGEGRISRPCGDRW*RS AESSHHRGRQSGYPENKLCGF LLKTPHHVLERADEAGSHGNE VGNASPEVNLNVPVQVSFPEEE FASGATHVQETSLEPKILVPPE PSEERLRNSPVQDEYEFTESLH NEVVPQDILSEELSSESTPEDVL SQKESFEHISENEFAAEQST PAEQKELGSEKKEEDQLSSEVV TEKAQKELKKSQIDTYCYTCKC PISATDKVFGTHKDHEVSTLDT AISAVKTVIRSDSKTKSGEGAY GREMKSPHKFPEGKIHNDEH DRIVQEFLAETGPKVTRFNEQC RFRPRIYVYENNQTQIMVEEPQ
11022	41390	B	11084	148	235	
11023	41391	A	11085	30	420	VSGTRGPSPCLGTSWASGAWR PPLGGLPPSAGANGPGRVRSAA GCSLVAGCKVLGSWVSGFAGR SHVACAGSSGESVRARCPGTA* AAGGPGPQAFQAAY*QGSRMH RAPPRPNRQVQTWEEGAGTG
11024	41392	A	11086	2	73	ERLRMPGVAKGRPR*GNPRRG RG
11025	41393	B	11087	1	1412	
11026	41394	A	11088	39	427	PPYWGHFHSSAAASAALKGKD GGSSRSLVPPAQ*HSHSPSKTHC VHTPSRSCAQGLTHTLTQSPPSL KIAQSPSFDARAHARLRIWQIPS APRVPLSASLSPTRTAGSVRFE SQSTKTSRSHRFLPRT
11027	41395	B	11089	1	813	
11028	41396	A	11090	3	365	RTPSSKGCGRPPRGMGAQGSA GCGRRRSRRSRQARRWSHPC* PPSSPPWPRPARSPPGCSHRAAL SSPSPSSFLARHSARPLALAL GPPPWCSSGCASSAPFDLQHPE QSQNQDARG
11029	41397	C	11091	295	412	
11030	41398	A	11092	21	164	GAVTENDFYDLVRTIGGDLVE KVDLIDKFVHPK*VKSFLILPLTI SV

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11031	41399	A	11093	1	1373	GISTMVGSALRRGAHAYVYLV SKASHISRGHQHQA WGS RPPAA ECATQRAPGSVVELLGKSY PQD DHSNLTRKVLTRVGRNLHNQQ HHPLWLIKERVKEHFYKQYVG RFGTPLFSVYDNLSPVTTWQN FDSLLIPADHPSRKKGDNY YLN RTHMLRAHTSAHQWDL LHAG LDAFLVVG DVYRRDQIDSQHY PIFHQLEAVRLF SKHELFAGIKD GESLQLFEQSSRSAHKQETH TM EAVKLVEFDL KQTLTRLMAHL FGDELEIRWVDCYFPFTHPSFE MEINFHGE\WLEVLGCGVMEQ QLVNSAGA QDRIGWAFGLGLE RLAMILYDIPDIRLFWCED\ERF LKQFCVSNINQKV KFP LSKYP AVINDISFWLPSENYAE\NDF*Y LVRTIGSDLVERVDLIDKFVLPK THKTSHSYRIMYR\HMEPTLSQ\ REVRHI/HIQALQEAAVQLLGV
11032	41400	A	11094	8	119	
11033	41401	A	11095	2	475	QAGPSGGIPEGIAITGDDSSMHA IAPEDLPVGQDVEAEDSDTGD L DPVLT VFRRGVEREFFSNWYKT AWSFSKLAQKGLLSS*PSSLSSS SSSSDKAVTAGTELFASSLSSSS DPRRSISSSSLLFVAPLPVVSSTL AGPYLPTAFFTPGR LAFSFS
11034	41402	B	11096	677	696	
11035	41403	A	11097	1	357	STMIEAHVDVRTTDGYFLLFC VGFTKKHNNLIPKTSYA*HQQY ICLPHQDDRVTHQNPSLPDGSIA RVLSIYYLYISRREMNSIISQGL QKVHIHIVIPGSLMNQELDDL I TVFFKA
11036	41404	B	11098	1	541	
11037	41405	A	11099	14	671	PAPWRLGKNKRLTKGGKKG A\ KKKGVNPF SKKEWY\DV KAPA MFNIRNIGKTLVTRTQGT KIAS DGLK/GVRVFEVSLADLQND E V AFRK\FKLIT EDVQGKNCLTN\F HGMDLY/TRDKMCSMVKK\WQ TMIEAHVDVKTTDGYLLRLFC VGFTKKRNQIRKTSYA\QHQQ \VRQIREGRWMEIMDPRRWQD QMDLEE VGHELIAGSIWKRHR KGLPIYLSSP

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11038	41406	A	11100	1	217	RQGLTLSFRLECPGVISAHCSLN LPGSSKPPASAPQVAGTTGVYH HAS*FFIFFVEMGFHHVAQPGL CNFVF
11039	41407	A	11101	2	442	LDVQIQEAQRTPGKFIKRYSP RHFVIRLSKLKTKERILRAVRQ KHQVITYKGKPIRLAADFSTETL QARRDRGPISLLKQNNYQPRI LYPEKLSIIYEGKIQSFSQDKQML REFAIRKPPLQELLKGSNLNLETN PGNT*KQNFFKA
11040	41408	A	11102	2	545	EPRPGEKTAHVYGPDCLCGSCV QLSFSGAFFSTRWVSYEANCK GEQFVFEKGEYAHWDWTSS QRT/DLSSLRPIKVDSQEHKIILY ENPNFTGKKMEIIDDVPSFHA HGYQEKVSSVWLRSGTWVGY *YPGYRGLQYLLEKGDYKDSS DFGARHPQVQSVRCIHDMMQGH QCGAFHPSK
11041	41409	A	11103	2	389	EIIDDVPSFHAHGYQEKVSSV WVRSGM*VHCQPWLTLPQELR LWGRSGETLALTSAPVSKTCD FGARHPQVQSVRCIHDMMQGHQ CGAFHPLGTQEEEEAGQKEQM EQVPFWLARGDICELSGKKS
11042	41410	A	11104	1	446	MEEEELEFVEELEAVLQLTPEV QLAIEQVFPSQDPLDRADFN EYINTLFPTEQLPMPSAHGGVSS CGNAGGPVSFATRENARCGIW GSGGVCDGVFGA/GAAGWGGV *GGGALGWMLSGRRIVLRS AIF TSPVSRAGSPERGWS
11043	41411	A	11105	1	210	SSDGRHLAFDQGS*VLGHVG KQRAVDVQPSVAVRVRQPLLL LSTIMGSGLLGWEQGIDILNS IEI CSI
11044	41412	A	11106	2	287	AAESPGRSTRTDGAGLTRSLPR GSRGAGAWAAGGLSWARGG GRQEAGWRNDG*GGTGARGG AGSRAAAHARGAAGHRASVSK PGPSRSSRFQCC
11045	41413	A	11107	150	389	GEEIWLGAARPGKPTPSRIPL* PSLFPWRPHKFPERSVFAGSQP ASQSPPLRPPPPSHPEGSCLSR LPPPGYLLPLR
11046	41414	C	11108	43	213	
11047	41415	A	11109	3	246	SSFPAPAREGALAPCRCLAGISV TLQGNP*GRCHHHHHHHHHHHH HRCYDSQESGKLPRPGPKAELE GPPAWLLVGPGAHP

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11048	41416	A	11113	1	726	
11049	41417	A	11114	2	251	LSCGRSLHQGSVTSCKTINALT LTVDTWRGCAW*GCACTFHCR SATNMIRAYVVFSTISVLSLQEI RLSLRAILADLRLSICF
11050	41418	A	11115	1	1041	
11051	41419	A	11116	1	398	MGPNSTLENLLKGATSVFYNR DQEEAQKKERKLRGRTKALAA ALQ/SWQSPGAPRCIH*LLSVW QARVF*RGMPRQQDEATSTLSI QWQKPVETELSPDMEVTGFRA SLTDERVHLPVLPQEYTEQRR QGHL
11052	41420	A	11117	5	137	
11053	41421	A	11118	5	272	
11054	41422	A	11119	2	211	WNQPRCPSTVNWIMKIWYIYT MEHYAAIKRNMIMSFAATWME LEAIFLSKMPQ*QKNKYCVFLH ACLES
11055	41423	B	11120	1	1560	
11056	41424	A	11121	1	588	
11057	41425	A	11122	80	574	EPAAQGNVLVDLLC*MKNRNR WLPNELSQVLHVTSQSFSKTG MSAKHTAFAMRMSPAQMTDIV VGLSTGQSPFMVLMQGGGHS MQETRIASLPVTAIPAGMKIPCV TAGSACMVGPSVRVNEWFSAY GMAGMAYSRVSTFVRGLSPRY LTTREAPGCGSSAGH
11058	41426	A	11123	48	131	
11059	41427	A	11124	1	1195	
11060	41428	A	11125	2	1028	
11061	41429	A	11126	1	1008	NMMEQVLDIPSL*VISKDNANV TIDAVCFIQVIDAPRAAYEVSNL ELAIINLTMTNIRTVLGSMELE MLSQRDSINSRLLRIVDEATNPL ALKIAARMIEDGELDKRIAQRY SGWNSQLGQILKGQMSLADL AKYAQEHHLSPVHHQVAEWM RARNGQLFRLRSNHLTLLVEQN NFYARGAKIYPDIHIDRSLKKCP SDLFAANARCGICQQSDERCLR YQPRRERGLYRIDITYPGKSYTT TALPSRFVWFVTGKAQSTQAS ALSYIDSLLYHHLDLYGQRLGH LDDGTDSDWNHVPTLNGQCTLV LIHEYVDTRGPEIKTILVISWWN ILVFH

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11062	41430	A	11127	3	333	DIGIGEENRKRWLRTGKCSFLP KEREWMDRLMSWGLVDTRH ANPQTADRFSWFDYRSKGFDD NRGLRIDLLLASQPLAECCV*T GIDYEIRSMEKPSDHAPVWATF RR
11063	41431	A	11128	2	136	YCKLACLQVDSRGSQVFALDV AARHR*QFAMPESDAVAMLKH LS
11064	41432	A	11129	3	431	GVFGRVSEKQRPAAPAAGERPL PRRPLPCGAAARTGPFAAQAA *RAAAAPRSERRRHGAEEGH QRCIYRHAADRALGEAARTG YALRPAGEPELAAAARRR*RAP DPGPRVPRHLGLLATRACPPGG AHCSPERGAISW
11065	41433	A	11130	64	2436	RRQGLEGWWAIGLEGLTGKAL AWLFTVPGVRGLQWSPRFFLTR LRTLCKVLGVLFSVAGGKKG PTCILQILKGQRRQEA*CISGWA ERVWASGQA*WEVWLHWAKS RNWFLFWKQHVHALRVRLDTT LFSLEEGSSFWNQGLTWKVVR RTFSESINHTPRITLGVPSVHSF QLPGLLNFGFKVCFVLSPRIFN LTHENFLSSEGPEIGLLGATFN CLNKRLAKYMRNVHPKPKLV RYLHSRLPPEPAAAP*AWCGPR HLSCRQMSSSSQIGNDSFQLQV TPVHLLPLSHTTRKNPEMYDLP LLFFNPQESAILQLFHQDGECLH CSPIVGDWCHLGHSQACPSFSV PSGLFVPSLLCGAAFGRLVANV LKRYSVCVRVCAHVHVCARVR VYACVWVRMTISLTVILIESTN EITYGLPIMVTLMVSTLPPGPCQ AQGHVRPTGPIFRSLEWETEV EMDK*GHDFAHVLVSECISSEA *GMLLFCCGPDRLSFSTFRAVW SLSRLSDSVIAAGKQ*A*RT*SV GYSLLCPDLKGDPSAVSILRTT VHHAFPVVTENRGNEKEFMKG NQLISNNIKFKVKKTA*EERQV RDKRSRLTRLSALELRNMCDE HIASEEPAEKEDLLQQMLERR* EPGGAPTARRATQRWGEPLAQ MFPLTFHGLILRSQVLTLVRG VCYSESQSVSLSEAEISQARPDE
11066	41434	A	11133	3	80	

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11067	41435	A	11134	2	958	LKCELS\DQGLAPAIQTVRLTHE SLTALEIPNALLQTIQDLILDLR VRCVMATLQHTAEEIKRLAEK EDWIVDNEGLTSLPCQFEQCIV CSLQSLKGVLECKPGEASVFQQ PKTQEEVCQLSINITQVFIYCLE QLSTKPDADIDTTHLSGDVSSP DLFGSIHEDFSLTSEQRLIVLS NCCYLERHTFLNIAEHFEKHNF QGIE*ITQVSMASLKELDQRLFE NYIELKADPIVGSLEP*YAGYF DCKDCLPPTGVRNYLKEALVNI IAVHAEVFTISKELVPRVLSKGI EAVSERAQSTDAVCFILQQKWS
11068	41436	A	11135	52	1053	MDEEERVYRACYILCISLLSSPG NPGLHSPMLDLNDTRPSVLG HLSLFLIQKYNHSILFFSPLAWR YKTPHRVAFVEKLTCLVLSQLP YF*IISNMFYFVFLIFKTAESNP INHI*TRLCLFLVF*KMIQEVMS SLVKLTRGALLPLSIRDGEAKQ YGGWEVALRSHSAHFCLDVFFV RRLTHESLTALEIPNDLLQTIQD LIFRPGSQL*PVSRIFFSAGTFRF KNHLHDFTGFHTCLTGAPRGPV GGCASDDGQAAADTSQWLS*I VLYL*LFLASMFSLSDVDFSL AP*R*FSKHLFCF*EQRLIVLSN CCYLERHTFLNISHGSP
11069	41437	A	11136	50	426	
11070	41438	A	11137	2	949	QQVWKQNCFKHYSNETDNSTT QLVGVQTLQVVVPSLILCEHCM NFSSPHVWCCMVQAVPGGQGO TIMQVPVSGTQGLQQVSNI*KY *AVYQRRGFKE*IITGQTQQIII QQPQTAVTAGQTQVIPLALSHR SKTDLEESDN*VRYQPVNADGT ILQQGKCTHKLP*DFLGQLFCPL DN*HTTSSGQGTVTVTLPVAGN VVNSGGMVMVRKCIFQLCL*N FLEHAT*CLLKEEPLYVNAKQY HRILKRRQARAKLEAEGKIPKE RRVCITLGRI*ERRIAGFYF*NY LFSPKEKDSPHMQVGRHIHFILL FITLY
11071	41439	B	11138	26	80	

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11072	41440	A	11139	203	797	HRHIARHLFPRTTPTP*LSWQGS *TPRWKGVRAVVTQPRKERRA ESEQFQATKPRSRL*LOPPTPSL VSSCQLKTTAASRPLT*PSKSVY PSAPFHPWLPC/SKPERSVSPES NDSISEELNHFKPIVCSPCTPPK RLPDGRVLSPLIKSTP/PQPKQK PAEADFL*GQSTDPQKVGTDLS GAADQKDPFKSHSYLSGS
11073	41441	A	11140	33	379	EATSNFKQPPSLPFWCLKSRTSL KPRQSKVCSSFPVI*GKTGNEL ALQIP*FKSSCGPRFPD***PAGR /SAPSLGPPPSQSCAHQ*EHWVQ VCIKHGITNAEPPAEHLKVLVR E
11074	41442	A	11141	248	622	SESSGRFWLCGLGPGTSPLLSL KFPHLLPASRGRSPSPRPRVPR GKATQVVWAWGYRCVDEDPA RCLGTPGRTD/PHCGQGLLCPL GKSCSTSQPLSQGDGRGTSWDR SHACSPGGHPHRCIGCM
11075	41443	C	11142	1	1311	
11076	41444	A	11143	452	1286	
11077	41445	A	11144	2	299	GLPLAHGLLGRFGMDRIYEGQ VEMTGD*CDVESIDGQPGAFTC YLDVGLARTITGNKVFALKKG AVDKGCSVPHSTR*FPACDSAE FALGIPYFVQPNI
11078	41446	B	11145	49	832	
11079	41447	A	11146	1	1074	
11080	41448	A	11147	1	360	
11081	41449	A	11148	1	1155	
11082	41450	A	11149	75	266	
11083	41451	A	11150	2	222	
11084	41452	A	11151	1	549	
11085	41453	C	11152	453	665	
11086	41454	A	11153	1	1962	
11087	41455	A	11154	1	295	ASTAGVSYYVAQAGLKLGLS LSKCRDYRCEPPCPE*MSLYKV MAMARKAMSL\YIYFFLDEFM YFAGTWMKLETIILSKLSQGQK TKHRMFSLVGGN
11088	41456	A	11155	1	363	
11089	41457	B	11156	1	375	
11090	41458	A	11157	1	197	
11091	41459	C	11158	1	270	
11092	41460	C	11159	1	146	
11093	41461	C	11160	1	268	
11094	41462	C	11161	1	301	
11095	41463	A	11162	1	289	
11096	41464	B	11163	19	240	

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11097	41465	A	11164	2	253	
11098	41466	B	11165	1	978	
11099	41467	B	11166	1	316	
11100	41468	A	11167	191	319	
11101	41469	A	11168	608	763	
11102	41470	A	11169	274	437	
11103	41471	A	11170	1	417	
11104	41472	C	11171	1	792	
11105	41473	A	11172	3	449	IYLTKEKLDLYKEKCKTLLKEIT DDTNKWKHIPSSWMGRINIVK MTTLPKAIYKFNAIPFRIPPSFFT ALEDTILKFIWNQKR/CPHSQCK IKQKEQIWRHHTT*FQAIL*GHS HQNS/IGTWMKLENIILSKLLQG QKTKHCMFSLIGGN
11106	41474	A	11173	1	441	
11107	41475	B	11174	1	597	
11108	41476	A	11175	5	265	
11109	41477	A	11176	3	280	SIYPNTCTRMFIVALLTIAKTWN QAICPTMIDWIKKMWHIYSME YYAAIKNDEFMSFVGTWMKLE TIIFSKLSQGQK\TKHRMFSLIGG ELEQ
11110	41478	A	11177	590	747	KAYQPEKAQDQVDSQPNSTRG TWMKLETIILSKLTQE\QK\TKHC IFSLISGS
11111	41479	A	11178	3	274	FYYKDTCTHMFIVALFTIAKTW NQPKCPSVIDW/IMKNMWHIYT MEYYAAIKNDEFMSFSGTWMK LETIILSKLTQE\QKTKHCMFSLI SGS
11112	41480	A	11179	1940	2061	
11113	41481	A	11180	493	743	KATRSVNC/WWDHL*RPFWGS PH
11114	41482	B	11181	1	1248	
11115	41483	B	11182	50	8445	
11116	41484	A	11183	40	125	
11117	41485	B	11184	1	1896	
11118	41486	A	11185	1	624	
11119	41487	A	11186	1	357	
11120	41488	A	11187	1	304	
11121	41489	A	11188	681	834	
11122	41490	A	11189	3	2128	
11123	41491	A	11190	175	402	

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11124	41492	A	11191	46	790	NPGAVKMPAYHSSIMDPDTKLI GNM/AHLLPIRSQFKGPAPRET KDT\DIVDEAIFLPSGPNVFFKN YEIKNE\ADRTLIIYITLYISECLK KLQK\CQFPKAQGGGKEMFYA GESTNFSHFLGEPGFPTLTAILC PNPANK\QEDEVMRALFTNQF KGKRLGLRLCEKSFSDP\QNG*T PAKWVDLAFVKRQFMNKSLS GPWTVEGSPGQPTVSRGPAAAF FQQDVTQSFCLYLVKFYRDERR ACLYLKNS
11125	41493	A	11192	1	828	
11126	41494	A	11193	1	525	
11127	41495	A	11194	43	1826	THVRLAGARASPRAPRLRPRKP RPQGLPCLPGLRRARLEGGARG RADEMFLPLPAAGRNVVRRRL AVVRSGSRSLSTADMTKGLVL GIYSKEKEDDV\QFTSAGENFD KSLAGKLRETLNISGPPLKAGK TRTFYGLHQDFPSVVLVGLGK KAAGIDEQENWHEGKENIRAA VAAGCRQIQDLELSSVEVDPCG DAQAAAEGAVLGLYEYDDLK QKKKMAVS AKLYGSGDQEA QKGVLFASGQNLARQLMETPA NEMTPTRFAEIIKLNLSASSKT EVHIRPKSWIEEQAMGSFLSVA KGSDEPPVFLEIHYKGSPNANE PPLVFVGKGITFDGGISIKASA NMDLMRADMGGAATICSIVS AAKLNLPINIIGLAPLCENMPSG KANKPGDVVRAKNGKTIQVDN TDA\EGRLILADALCYAHTFNP KVILNAATLTGAMDVALGSGA TGVFTNSSWLWNKLFESIETG DRVWRMPLFEHYTRQVVDQCQL AD\VNNIGKYRSAGACTAAAF KEFVTHPKWAHLDIAGVMTNK DEV PQSTGKA*LGRPTRTLNEF L\LRFSQDNCLVQILKNVFHSL NWTVELKKVFE
11128	41496	A	11195	1	273	

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11129	41497	A	11196	2996	8256	LPTRRSWAVFFKGGESGAHTLR RKARKKRKKQVKGGSPKKGEE AKKVEAPRLPKLAAPGGGAGA KGGAGGTSDMRLWSWVLHLG LLSAALGCGLAERPRRARRDPR AGRPPRPAAGPATCATRGPRPP RLAAAAAAGRAWAVRVPR RRQQREARGATEEPSPPSRALY FSGRGEQLRVLRADLELPRDAF TLQVWLRAEGGQRSPA VITGL YDKCSYISRDRGWVVGHIHTISD QDNKDPRYFFSLKTDRARQV
11130	41498	A	11197	75	266	
11131	41499	B	11198	1	363	
11132	41500	A	11199	1	649	PRIRHEVIEEVIRMMLEIINSLT NSLHHNPNLVYALLYKRDLE Q\FRTHPSFQDIMQNIDLVISFFS SRLAQAGAELSERVLEIISQV ALRCPKDRLEISQKLKFKYVE EEQPRGVF*SPYVWSLVQLQ SALYWEFHRTFQLFHPWDSRLR GRDASSPPGTPSSQGRPFQSSFIS GVTEVGQTGYLVYLLKEDCT SVFSSHTLIWRIGC
11133	41501	A	11200	108	210	
11134	41502	A	11201	53	259	
11135	41503	A	11202	1	2679	
11136	41504	A	11203	1	675	
11137	41505	A	11204	834	1077	KGLWTVPPSFGDTVSGPPVPTG GSAGHTVPPPPR*CRRQPPSP WRRLFLPQLRSRSSQPPAGPAR HLPPPAARPECFCA
11138	41506	A	11205	1	681	
11139	41507	A	11206	1777	1940	VPILPQPLLLHPIILLS*VPILPQP/ PAPPYPNPFITSPHTWSGLQFH SVTSPPPPAQFTLKRVAEAKGI VK
11140	41508	A	11207	3	547	
11141	41509	A	11208	1	578	
11142	41510	A	11209	194	379	
11143	41511	A	11210	1	927	
11144	41512	B	11211	1	916	
11145	41513	A	11212	1	441	RRKLQKQALGPEQNLETLLNL ATSVFYNRDQEEQVQKEKRDQ RKAAALVMALRQTNLGGSERT EHEAGQSPGKACYQCGLLGHF KKDCPMRNKLPPR/RVSTMLRQ SLEGALPQRMKVPWVRSPQPD DPTTGLRVP GASASSCHHPH
11146	41514	A	11213	164	359	
11147	41515	C	11214	157	189	

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11148	41516	A	11215	13	399	VEAFPTGSEKATAVISSLLSDIIP QSRLPTSIPSDNRRAFISQISQAV FQALSIP*NLYIPYGPSSSRKH/T LTKLSHQLKKDWTILLPLSLLRI QACPRNATGYSPFKVLYRHSFL LRPSLIPDTRPT
11149	41517	A	11216	2	152	WYGEIMGDVVSQGCER*WAMF LRAASSGIRGGVGT*SGRH*AE GRFYGDFRGNRAASVFSR
11150	41518	A	11217	1	1143	
11151	41519	A	11218	28	453	
11152	41520	A	11219	275	1128	DISTPSLATDHMPITIPNLIT/TY PTQRQYPIPPHALKGLKPVITDL LQHRLKPINSPYNPILPVQKP DKSYRLVQDLRLTNQIVLPIHP VVPNLYTLLSSIPSSSTTHYSVLH LKDAFFTIPLHPSSQPLFAVTWT DPDTQQSQQLTWAVLPQGFRD SPHYFSQALSHDLLSFHPSASHL IQYIDDLLCSPSFESSQQDTLL LLQHLSFGYQSDDRPAFTSQI TQAVSQALGIQWNLHIPYHPQS SGKVEWTNGLLKLKLLLLLTANI DDTSYLQIPHKGLQ
11153	41521	A	11220	1	606	
11154	41522	A	11221	713	835	LSQWRSDNGPAFISQITQAVSQ APGIQ*NLYIPYHPQSSGK
11155	41523	A	11222	1	1133	AEALPVQFYFHLSDIRGMLLHE PDLQKGKAVSQEDPQWSYQA DSPGIARRDYMVSRLVEGLKK AAYKAVNYDKLKKTTQVTIVP GPDFNLASHIIPDTTPDPHDCYL SDTPGIHSISHISFFAIPHPDHTW FIDGSSTTPNRHTPAKAGYAIVP STSIIEAALPPSATSRQAKLIAL TRTLTLAKELCVNIYTDKYAF HILHHHAVIWAERGFLTQGW SNINASLIKTLKATLLPKEAGV IHCKGHQKASDPQAQGNFYAD KIAKEAASGPTSVPHGQFFSFL VTPTYSPTKTSTYPSLLTQGW FLDQGGKYLPAKASHILPSFH NLFHVGYKPLAHLLEYLISFLS WKSILKEITSQ*SICYSTTPQG
11156	41524	B	11223	1	1156	
11157	41525	A	11224	1	4991	
11158	41526	A	11225	3	590	
11159	41527	A	11226	203	1772	
11160	41528	A	11227	1	1669	
11161	41529	A	11228	1473	1604	
11162	41530	A	11229	82	159	

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11163	41531	A	11230	1	1323	
11164	41532	A	11231	377	631	LLKGKLTNRKDIHTKTPSVRHH HRRPKPGRDTTKKIILNQYPW* TSMQKSSIKYWQTESSSTSKSLS TMIKLASSLGCKNWKKL
11165	41533	C	11232	1	1677	
11166	41534	A	11233	753	966	FVFLWSLMMV TYRWGFGVDV LSVC*FSFQQS\EPQLQVCWSLL EVHS*PCLPGYQQRNRCWPRG SCDVVIT
11167	41535	A	11234	1253	1459	LSDSPKLK*RKKC*GQPERKVG LPTKGSPSD*QQISWQKLCCKPE ESGGQYSTFLKKRIFNPEFHIQQ
11168	41536	B	11235	1	924	
11169	41537	A	11236	299	436	
11170	41538	A	11237	259	536	FQKEWYQLLLVPLV/EIWL*IHL VLDF*LVNY*LLPQFQSM LLV SSEIQLLPGLVLGECMCQGIYPF LLDFLWSLMMV TYRWGFGVD VLCVC
11171	41539	B	11238	79	1587	
11172	41540	A	11239	1608	1763	
11173	41541	A	11240	1	2001	
11174	41542	B	11241	1	741	
11175	41543	B	11242	1	1368	
11176	41544	C	11243	1	3924	
11177	41545	A	11244	470	619	KVTRGWGSPHQDAG*SPCQSH QDQTP*GILKEHQEKARRK*RQ LCVLQL
11178	41546	B	11245	1	3546	
11179	41547	A	11246	363	476	
11180	41548	A	11247	1	759	
11181	41549	C	11248	376	986	
11182	41550	A	11249	556	821	MSIRSTWRRAEFNSWVSFLTFR LVDLSLVFDDGDVQVGFWCGC PSCLLVFL/ISQDPQLQVCWSL QEVHSRPCSPGYQQQLQYSEY
11183	41551	A	11250	119	340	
11184	41552	B	11251	1	942	
11185	41553	A	11252	436	732	LHIWPFLLPCKAQNQVHCSKFC PLGRFPFMAVLQGCPRKGL*CC SCPLLGGIWISCRICAFRTYLRP IMYIPLPFADGMLLCTAHSMAR CFGYCSLVV
11186	41554	C	11253	1	1878	
11187	41555	A	11254	720	1535	ILPEVQGGAGTI*LSLFLIE*PLF LSPA*LPWPELPTLC*IGVVRDG TPVLCQFSKGMLPVFAHSV

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11188	41556	A	11255	2	1059	WLLAASPLWLCRIRP/LILAAFM GWQSR SALGTQSQESGKGSPD QVLVPQDCGPWLGVELVSVP GSQAGEEPILSENKGRVTQMKI PEERSGSNICCSAIFAVLQPPLLI PRQTRSGVDLQQNPTDLQLRVL TVRRKTNKEKGHPHQNPCTCTSP ASKTKGALRFIKQVLRDLERAL DSHTIMGDFNTPLSTLDRSTRQ KVNKDIQELNSALHQVDLIDIY RTLHPKSTEYTVFSAPHHTYSKI DHTVGSKALLSKCKRIEILTNCI SDHSAIKLELRIKKLTQNHSTTL KLNNLLNDYWVHKETKAEIK MVFEIDENKDTIYQNLWDTFK AVCRGKFIALKAHKRQKQERT
11189	41557	A	11256	82	159	
11190	41558	A	11257	820	1358	HTDGFLVWMPFLFVSFSPNSQD RQLQVCWRLLLEVHSRPFPGY QQRWLQNNRY/SVNRKCCCLIV PLEVLSQRSTHQHVGEWLCLL GRKFPAGMEACTAMLCSSSVL EAATLSFSVQHRACGTGS*KPQ QGRVYPSEGREHNGAAAFGPE CSSECPASCPDPTQPCAPGTI PFFSCQT
11191	41559	A	11258	2435	3261	QVRGYRCRFVTWVNCMSLRFG VQRIPSPSLTGTQPPVGAD*HLT RPGTPLR*NFORNDQAVTFAVH VHIFVQPLLLIPMQTSGVDLR QTPTDLQLRVLTVRRKTNKQK GHPHRNPICMSPSSKTARQAN IQIQEIQRTPQRYSSRRATPRHII VRFTKVEMKEKKLRAAREKGR VTHKGKPIRLTVDLLAETLQAR REWGPINFILKEKNFQPRISYPA KLNFISEEEIKSFTDKQMLRDFV TTRPALQELLKEALNMERNNQ YQPLQNHAKL

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11192	41560	A	11260	1439	2544	VSSTTKEKALSVPWRWCILQKK NPPNHQPVSLPEVFLPQILKFSG PPHWRRIEYKVMRLNIGDM KTKKKMLEKYEQLEIRHQQS RT*KAVCCIT*LSRHIILLGQAPL VQQSM*QPESHHQVNPPETSYG IHQTPKLS*IGIK*RPWIM/MSEV KGYKVGNNFFAKAPNRAPLL KPRQTGSGVDLQQTADLQLR VLTVRNTNKQKGPHQNPIC SPSSKTKEVENLEKRLDKWLTR LTNVEKSLNDLMELKTMAREL HDEGTSFSSQFDQLEERVPM DQMNMKQEEKFREKRMKRN EQSLQEIRDYVKRPNRLRIGVPE SDGNGTKLENTLQDIIQENFPS LARQANIQEIQRMPQR
11193	41561	A	11261	2772	3111	QSGPSAAGLLEFAGGPLQTLFA WVSAAEVGKCKGSGSSLS*PK KGVM DGTWKIGSLPPEYCAFP T*KN GAP/LRLYPTPGSEGPTPT ESP*/FASTAVGDQATARQQRGW GRGARH
11194	41562	A	11262	248	597	DRCPAAWDRHPAGIQSSRREPS KATWTLRSKLSVQDGRDSSL RLNCKVAARLGAGHPMLRLG LRC*YPGKQGLEWTSSKLQQTC H*GS*LLKGKLTNRKDIHSKTPS VRHYHQR
11195	41563	B	11263	1	2250	
11196	41564	A	11264	1298	1681	GVSVPLLWGASQLGYLGVM DP LAEAVCPFSDLQLHSGRTSTVF KAALGQSGAHCPCVSAQS* AD*RALREHKQ*FGSTLCGPVM VVAMELGSSTMVELVSSPANS VKVFLFLHFSSTCCFLTFS
11197	41565	A	11265	1272	1497	SGLLPIKVAFTKPQFLFILLRIWL *RGYVFCSWKVTTPREQPQCIT DGYQIFIFMQKTLSCLSILGKRT MSLMQ
11198	41566	A	11266	1	1071	
11199	41567	A	11267	788	1286	
11200	41568	A	11268	3	455	
11201	41569	A	11269	1	711	
11202	41570	A	11270	225	525	GGGENFSYPWYLLVGCGWFSS SPIVPDVPPFSLLLPAQKKKPP PK\PEPKPKAPAKKGEKVPKG KKGKADAGKEGNNPAENGDA KTAQAQKAEGAGDAK

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11203	41571	A	11271	914	1261	TAKPKTNWCCRAPTSRLASTFA TMPFKKAECVGDHAPATVKDE PQRISARLS\AKPAPPKPEPKPK KAPAKKGEKVPKGKKGKAD\A GKEG\NNPAEN\GDAKTDQAQK A\EGA\GDAK
11204	41572	A	11272	3	359	
11205	41573	A	11273	440	642	WKAEREEIEPR/PKKAPAKKGE KVPKGKKGKAEAGQDGDNPTE NGDAKTDQGQKAEGAGDAKR TVSHQN
11206	41574	A	11274	499	723	
11207	41575	A	11275	147	459	STYVPLPSPSSMPKRKAEGHA MGDKAKVKDEPQRRFARLS\A KPAPPKPEPKPKKAPAKKGEKV PKGKKGKAD\AGKEGE*PLQKN GDAKTDQAQKA\EGA\GDAK
11208	41576	B	11276	179	400	
11209	41577	A	11277	24	601	
11210	41578	A	11278	266	441	
11211	41579	A	11279	17	570	HQPKKDLTGFKWPRYIRLQR QRILYKRLKVHLAINQFTQAL ARQTATQLLKLAKHYRPETKQ EKKQRLARAEKKAAGKGDVP TKRPPVLRAGVNTVTTLVENK KAQLVVIAHDVGPIELVVFLPA LCRKMGPVYCQ\IKGKARLG\R LVHRK\TCTTCRFTQ\VNS\EDK GALAK\VEAIRTNYNDRYDEI R\RHWWGNVLGPKSVARIAKL EKAKAKELAH*TGGSYQDQLQ
11212	41580	A	11280	175	289	RPCVKESGKPHLKSSTMWTTL KLLRI*PRRTTCSPLRS
11213	41581	A	11281	205	361	
11214	41582	A	11282	144	396	CLEVLHKILFFEMESHSVTQAG VQWRDLGSLQPLPPG\SSNSPTS ASQVAGIRSMRQKGRANFFVFL VEMGFHHVGQADLELLTL
11215	41583	A	11283	241	550	
11216	41584	A	11284	2	106	
11217	41585	A	11285	2	447	PPLSRLLCPRHPHSGWPEGYSPE HLRCGLRSGTLRSRQALHCQVS SNP*PPSLWF*GCGNVL*ELCLF VLPVSVNLYQVLLSEIWEFHRT

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11218	41586	A	11286	1	2172	PAGRCRTAWAVAAQQLMLSA ALRTLKHVLYYSRQCLMVSRN LGSVGYDPNEKTFDKILVANRG EIACRVIRTCKKMGIKTVAIHSD VDASSVHVKMADEAVCVGPAP TSKSYLNMDAIMEAIIKKTRAQ AVHPGYGFLSENKEFARCLAAE DVVFIGPDTHAIQAMGDKIESK LLAKKAEVNTIPGFDGVVKDA EEAVRIAREIGYPVMIKASAGG GGKGMRIAWDDEETRDGFRLS SQEAASSFGDDRLLIEKFIDNPR HIEIQVLGDKHGNALWLNREC SIQRRNQKVVEEAPSIFLDAETR RAMGEQAVALARAVKYSSAGT VEFLVDSKKNFYFLEMNTRLQ VEHPVTECITGLDLVQEMIRVA KGYPLRHKQADIRINGWAVEC RVYAEDPYKSFGPLSIGRLSQY QEPLHLPGVRVDSGIQPGSDISI YYDPMISKLITYGSDRTEALKR MADALDNYVIRGVTHNIALLR EVIINSRFGKRNLNT*FLASKGF PEAFKGHLLTKSVEKTQFLAIAS\ SLFVAFQLRAQHFQENSRMPVI KPDIANWELSVKLHDKVHTVV ASNNGSVFSVEVDGSKLNVST WNLIASPLLSVSVDEHSEGLFQ CLSREAGGNMSIQFLGTVYKV NILTRLAAELNKFMLEKVTEDT SSVLRSPMPGVVVAVSVKPGD AVAEGQEICVIEAMKMQNSMT
11219	41587	A	11287	62	2600	
11220	41588	C	11288	277	508	
11221	41589	B	11289	94	1440	
11222	41590	A	11290	57	237	FLHAENKAHRPGISLCGLRAQP RQPASRHAW*SMRSEQRPWLT ASGRSSGQTRSSRLG

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11223	41591	A	11291	3	1968	EFDYSEDKSSWDNQQENPPPTK KIGKKPVAKMPLRRPKMKKTP EKLDNTPASPPRSPAEPNDIP KGTYTFDIDKWDDPNFNPFSS SKMQESP KLPQQSYNFDPDTC ESVDPFKTSSKTPSSPSKSPAS FEIPASAMEANGVDGDGLNKP AKKKKTP LKTDTFRVKKSPK RSP LSDPPSQDPTPAATPETPP VISAVHATDEEKLAVTNQKWTC MTDVLEADKQDYPQPSDLSTFV NTKFSSPTEELDYRNSYEIEYME KIGSSLPQDDDPKKQALYLMF DTSQESPVKSSPVRMSSEPTPCS GSISFEETEALVNTAAKNQHPV PRGLAPNQESH LQVPEKSSQKE LEAMGLGTPSEAIEITAPEG SFA SADALLSRLAHPVSLCGV ALDY LEPDLAEKNPPLFAQKLQREA \VHPTDVSISKTALYSRIRTT EVEKPAGLLFQQPDLDSALQI ARAEII\TKEREVSEWKDKYEES R\REVMEMRKIVA EYEKTIAQM IEDEQREKSVSHQTVQQLVLEKE QALADLNSVEKSLADLFRRYEKM KEVLEGFRKNEEVLKRC AQEY LSRVKKEEQRYQALKVHAEEK LDRANAEIAQVRGKAQQEQAA HQASLRKEQLRVDALERTLEQ KNKEIEELTKICDELIAMGKS
11224	41592	A	11292	63	2203	
11225	41593	A	11293	27	586	
11226	41594	A	11294	89	288	
11227	41595	A	11295	1	522	HERFETTYFKKFP\GYVVTGDG CQRDQDGYWITGRIDDM LNV SGHLLSTA EVESALVEH*RLLQ EAAVVGHPHPCEGVNASYCFV TLCDGHTFSPKLTEELKKA\VM RKRLAPFATPDYIQNAPGLPKT\ RSGKIMRRVLRKIAQNDHDLG DMSTVADPSVISHLFSHRCLTI
11228	41596	A	11296	2	569	
11229	41597	B	11297	1	990	
11230	41598	A	11298	1	252	
11231	41599	A	11299	39	174	RHIYSSNEVH*KEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEE EEEEEIPLSSL

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11232	41600	A	11300	16	379	ILDTSMPMRWTQKNFSMILAQPE QQCKTLSQNKNKDRRIKKKEE KKKKKKKKKKKKKKKKKKKKK KKKKK*EKEKEKEKEKKKEKE EKKKK/QEEEEEEEEEEEEEEEE EEEEEEEEEEEEERRRR
11233	41601	A	11301	1	249	
11234	41602	A	11302	1	353	
11235	41603	A	11303	1	847	
11236	41604	A	11304	3	224	QEKRRRKEKKK\KEEEEEEEEE EEEEEEEEEEEEKKKKKKKKKK KKKKKKKKKKKKKKKKKKKKK KKKKKKKKKKGRKTDLAVDPV
11237	41605	A	11305	1	417	
11238	41606	A	11306	1	1314	
11239	41607	B	11307	1	133	
11240	41608	A	11308	45	266	
11241	41609	A	11309	35	313	FLQMEDTYIVTKLLLLLRFAWL YLDLVFVLI*YRKKRRKKRKK KEKEKEKEKKKKKKKKKKKKK KKKKKKKKKKKKRKKEMALQS CSLWYLYA
11242	41610	C	11310	240	391	
11243	41611	A	11311	1	579	
11244	41612	A	11312	141	410	PEPILTMESKGMWQLFELTL/H NSKVNTLSKELHSEFSEVMNEI WASDQIRSAVLISSKPGCFIAGA DINMLAACKDPSRSNTAITRKH RE
11245	41613	A	11313	1	358	KWFTPMFEIKGGYA*SKNWR LSVRCGGWPLRRLMEEGSLPNP SRIYYRNKLRLKSQNNSSVDPC MRNLDECEVCRDGWELFCCDT CSRVFHDDCHIPPESEKMKES AGSQCCQES
11246	41614	A	11314	1	921	
11247	41615	A	11315	108	2765	

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11248	41616	A	11316	98	2418	AKLMAQQGQQGQMASGDSNL NFRMVAEIQNVEGQNLQEVC PEPIFRFFRENKVEIASAITRPF FLMGLRDRSFISEQMYEHFQEA FRNLVPVTRVMYCVLSELEKTF GWSHLEALFSRINLMAYPDLNE IYRSFQNVCEHSPLQMNNVN DLEDPRLLPYGKQENSNACHE MDDIAPQEQALSSSARCEPGFS SESCEQLALPKAGGGDAEDAPS LLPVSKLAIQIDEGESEEMPKL LPYDTEETFDLKTPTVTNEGEP EKGLCLLPGEGEESDDCSEMC DGEERQEASSSLARRGSVSSEL ENHPMNEEGESEELASSLLYDN VPGAEQSAYENEKCSVMCFS EEVPGSPEARTESDQACGTMDT VDIANNSTLGKPKRKRKRKRG HGWSRMRMRQKNSQQNDNS KADGQVVSSEKKANVNLKDL KIRGRKRGKPGTRFTQSDRAAQ KRVRSRASRKHKDETVDFAKAP LLPVTCCGGVKGILHKKKLQGGI LVKCIQTEDGKWFTPTFEFIKG GHARSKNWRLSVRCGGWPLR WLMENGFLPDPPRJRYRKKKRI LKSQNNSSVDPCMRNLDECEV CRDGGELFCCDTCRVFHEDCH IPPVEAERTPWNCIFCRMKESPG SQCCQSEVLERQMCPEEQLK CEFLLLKVYCCSESSFFAKIPYY YYIREACQGLKEPMWLDKIKK
11249	41617	A	11317	1	1210	
11250	41618	A	11318	1	743	MRYKKEQPLFLPKYDLGADAA ILQPQEEDCGSTQVRGGHHRK TEETGLLVTSLNQGIKPHDSVT KLLSPQRSSVLFLLLITSGVHTD SSKAVLESRRSLGYEASFLEYF QSFYKLPVDRLYAWHCSDHR NTTVTAINTDRPGLLTSLTVTI GQGSKKAPSGFSHISPAPTVKQ QPILCDDRDFSPSSFPSTNTPSQF ATNEVLTTGPPPGAG/CCQYSTI TRKTGPNCQAGGCPGGARPAK
11251	41619	A	11319	314	486	
11252	41620	A	11320	3	122	
11253	41621	A	11321	1	289	
11254	41622	A	11322	1	399	
11255	41623	A	11323	3	259	

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11256	41624	A	11324	1	369	MPATWEAEARESHKREFETH/ VQHSETPSEKEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEGEEEEEEEEEEEEEEEEEEEE GEEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEGEEEEEEEEEEEEEEEEEEEE EEGEEEEEEEEEEEEEEEEEEEEEEEE
11257	41625	B	11325	1	441	
11258	41626	A	11326	1	267	
11259	41627	B	11327	1	234	
11260	41628	A	11328	1	383	MVRPFLYKKIKEEEEEEEEEEEE EEEEGEEEEEEEEEEEEEEEEEEEE EGEEEEEEEEEEEEEEEEEEEEEDKD DEEER/EKKEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEKKHSL*DPD LGEKENKGQRKRKLARGTSQP SLSPGGSDPLGA
11261	41629	A	11329	305	625	VAPGDRHAFPLAPSGLSPELTLP QTQCCAQATVQGLEGTRSWSQ SGTSSLSPWSHTSLRRRRKEEG EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEE/IEEGEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEAAKTQ
11262	41630	A	11330	294	501	AFDKQPRGRGRVVKEEVLKKK KKEEEEKEEGEEEEEEEEEEEEEE E/EEDEEEEEEEEEEEEEEEEEEEEE EEEEEEEE
11263	41631	C	11331	618	966	
11264	41632	B	11332	1	332	
11265	41633	A	11333	1	705	
11266	41634	A	11334	1	417	
11267	41635	A	11335	1	639	
11268	41636	A	11336	2	2347	LMLVVIFNGTERIEDLRKPPSFD AILGGGLRVLFFQNEAHPPFAS WRNNEEARTDRPSQQLRSLNG KWRLMRYFLLTHLCETLVKVK DAEDQLGARVGYIELDLNSGKI LESFRPEERFPMMSFTKGLLCG AVLSRIDAGQEQLGRRIHYSQN DLGEYSPVTEKHLTDGMTVRE LCSAAITMSDNTAANLLTTIG GPNELTAFLHNMGDHVTRLDR SEPELNEAIPNDERDTRCLGQW QQRSQTINWPTTTTLP
11269	41637	A	11337	56	243	YSCLMFQDGE*LEKEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEN

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11270	41638	A	11338	1	503	MKHQHFALLVPEKFLIAQSTAS RVDRRQIWRDVSSERGEISQCL KVGTSLSNSTDVSAVEAVRATV LGSGTLTPTVLRSNAGPYTRIST VPACLLGQEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEK/EEEE/EEE EEEEEEEEEEEEEEEEEEEEEEEE EEGEEEEERRKS
11271	41639	A	11339	1	651	
11272	41640	A	11340	1	2184	MNIDANIPNKILENRIQQHIKKL IHHDQVGFIPGMQGWFNIRKSI NVIQHINRTKDKNCMIISIDAEK AFDKIQQCFMLETNLKLGIGGT YLKIIIRAIYDKPTANIILNGQKL EAFPLKTGTRQGCPLSPLLFNIV LEVLARAIRQEKEIKGVQLGKE EVKLSLFADDMIVYLENPIVSA QHLLKLISNFSKVSGYKINVQK SQAFLYTNNRQTENQIMSELPF TIASKRIKYRGIQLTRDLKDLFK ENDKPLLKEIKED/DKEMEEHS MLMGRKNQYRENSHAAQELE KNYFKVHMEPKKSPHYQVNP PKEQSGRHHVT*LQTLQGYSN QNSMVLVPKQTYRSMEQNRSL RNNATYLLQSDL*QTQEKQAM GKGFP**MVLGKLASHM*KPE TGSLPYTLYKNQFKVD*RLKR* T*NHKNQRRKPRHYHSGHRHG QGLHV*NTKINGNKNQN*QMG SN*TKELLHSKRNYRQSDQATY KMGENFHNLLIRQRANIQNVQ* TQTNLQEKKNQPHQKVGEHGE QTLLKRRHLCSQKTHEK\NSPSL AIREMQIKTTMRYHLTPVRMAI IKKSGNSRKHIQKKEEEEEEEEA EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEKCSLKHTEAPCVKGIETIFW NKFSLCDITKSYLSGVQKLEER AHKVKLALKFKKEIKMALHGG
11273	41641	A	11341	1	870	
11274	41642	A	11342	2	259	GSTISCARCAELRGSASRFRPLP AAAMKWMFKEDHSLEHRCVE SAKIRAKYPDRVPALTMGQLYE KEKDEDGFLCVAYSAGENTFGF

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11275	41643	A	11343	1	461	GCRRCRRRCCCARCAELRGS ASRFRPLPAAAMKWMFKEDR WLEHRCVESAK\IRAKYPDRVP VIVEK/VSQGSQIVDIDKRKYL VPSDITVAAQFMWIIRKRIQLPSE KA\IFLFVDKTVPQSSLTMGQLY EKEK\DEDGFLYVA\YSGRGTLF
11276	41644	A	11344	1	966	
11277	41645	A	11345	1	1037	RPPFPVPGVQKCPLPTRGGLHIG RWLRDRAGPPEAQDGTGGRSR SRRRPPALPNSRPSPVASGREM VVLSVPAEVTVILLDIEGTTTP IAFVKG/DILFPYIERKMLK\EYL QTHWEEEEFQ\QDVSLEFEGNK A\EEDAHLDGAVPIPGKHLGIG VDD\LQQM\QAVVDNVCWQM SLDRKTTALK\QLQGH\MWRAA FTAGRMK\AEFFADVPA\VR\K WREAG\MKVYIYSSGSVEAQKL LFGHSTEGDILEL\VDGH\ADTKI GHKRRRVKVTRK\IADSI\GCST\N KHVFVFTDVTSSRASAGLRE AGCCTLAVV\VRPG\NAGINR*L RKTTYSLITSFQWNYLPSST
11278	41646	A	11346	346	858	
11279	41647	A	11347	1	234	
11280	41648	A	11348	1	1696	
11281	41649	A	11349	1	234	
11282	41650	A	11350	1	1696	
11283	41651	A	11351	1	211	
11284	41652	A	11352	1	417	
11285	41653	A	11353	1	1458	
11286	41654	A	11354	219	329	
11287	41655	A	11355	132	451	
11288	41656	A	11356	1	996	
11289	41657	A	11357	1	867	MARLWGALSLWPLWAAVPWG GAAAVGVRACSSTAAPDGVEG PALRRSYWRHLRRLVLGPPEPP FSHVCQVGDPVLRGVAAPVER AQLGGPELQRLTQRLVQVMRR RRCVGLSAPQLGVPRQVLAL PEALCRECPPRQALRQMEPP LRVFNPSLRVLDLSTVTFPEG CESVAGFLACVPRFQAVQISGL DPNGEQVWQASGWAARIQH EMDHLQGCLFIDKMDSTFTN VYWMKVND*SFATGAEDSGY QDANTFTLSWANLTWHQLGW LAYDRKLDLCQGMAD
11290	41658	A	11358	3	226	
11291	41659	A	11359	1	756	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
11292	41660	A	11360	35	142	
11293	41661	C	11361	151	484	
11294	41662	A	11362	1	1245	
11295	41663	A	11363	2	1464	CQAKFIMNRLKK/NERQKVQDI KEVKQNIHLIRASFAGKGKQLE EKMQPLEPEAIMLSELMQEKT KCRMFSLSGKHGVHMSKTG ATDSGAYLRVEEIQTIREYYK HLYANKLENLEEMDKFLDKYT LPRLNQEEVESLNRPITGAELAI ISSLPTKKSPGPDGFTAIFYLRY KEELVPFLKLSQSIEREGILPNS FYEASIIIPKPGRDTTKKENFRP ISLMNIDAKILNKILANRIQQHI KKLIHHDQVGFIPGMQGWFLN RKSINVIQHINRAKDKNHMIISI HEEKAFDKIQPFMLKTLNKL IDGTYLKIIRAIYDKPTANIILNG QKLEAFPLKTGTRQGCPSPLL FNIVLEVLAIRQEKEIKGIHL GKEEVTLSLFADDMIVYLENPI VSAQNLLKLISNFSKVSQYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASRRIKYLGIQLTRDMKD LFKENYKPLLSEIVTVF
11296	41664	A	11364	41	559	
11297	41665	C	11365	63	370	
11298	41666	A	11366	3	211	
11299	41667	A	11367	47	358	PDMGLEDEQKMLTESGDPEEE EEEEELVIGLRLSVHTGNLGRP GM*NFPLLSIQN*MGDPHSAIS GGQCGSASWPSARIPLQQVREQ CRASWKKCVK\ARERLE\ CDE R*SSRSHTTEEDCT\EELFD\ LH A\RDHC\VAHKLL*QLAFCTDPP TTSERAMPSQLEEMCKRPGSG
11300	41668	A	11368	1	2082	

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11301	41669	A	11369	1	2013	MKHLKRWWWSAGGGLLHLTLL LSLAGLRVDLDLYLLPPPTLL QDELLFLGGPASSAYALSPFSAS GGWGRAGHLHPKGRELDPAAP PEGQLLREVRALGVFPVPRTSV DAWLVSVAAGSADEAHGLL GAAAASSTGGAGASVDGGSQA VQGGGGDPRAARSGPLDAGEE EKAPAEPTAQVPDAGGCASEE NGVLREKHEAVDHSSQHEENE ERVSAQKENSLLQNDDEENKI AEKPDWEAEKTTESRNEGISLG DIPLPGSISDGMNSSAHYHVNF QAIQDVNLHEAILLCPNNTFR RDPTARTSQSQEPFLQLNSHTT NPEQTLPGTNLTGFLSPVDNHM RNLTSDLLYDLIDNIFDEINLM SLATEDNFD\PIDVSHLFDEPDS DSGLTLDSSHNNTSDIKSNSSHS VCDEGAIGYCTDHE\SSSHDL EGAVGGYYPEPSKLCHLDQSDS DFHGDLTQHVFNHTYHLQP TAPTESTS\EPFPWPGGRSQEGL RE*DTLKDTRNLSRDEQRAK ALHIPF\SVDEIVGMPVDSFNSM LSRYLTDLQVSLIRDIRRGK NKVAAQNCRRKLDIILNLEDD VCNLQAKKETLKREQAQCENKA INIMKQKLHDLYHDIFSRLRDD QGRPVNPNHYALQCTHDGSILI VPKELVASGHKKETQKGKRG
11302	41670	A	11370	3	255	
11303	41671	A	11371	1	1611	
11304	41672	A	11372	109	207	MLCLQRFYMIFVDFQSRPQF*L KSCQHII SCHQ
11305	41673	A	11373	1	666	
11306	41674	A	11374	1	1254	

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11307	41675	A	11375	33	1458	KLPLKAKMGKEKTHINIVVIGH VDSGKSTTTGHLIYKCGGIDKR TIEKFEKEAAEMGKGSFKYAW VLDKLKAERERGITIDISLWKFE TSKYYVTIIDAPGHRDFIKNMIT GTSQADCAVLIVAAGVGEFEA GISKNGQTREHALLAYTLGVK QLIVGVNKMDSPEPPYSQKRYE EIVKEVSTYIKKIGYNPDTVAFV PISGWNGDNMLEPSANMPWFK GWKVTRKDGNASGTTLLLEALD CILPPTRPTDKPLRLPLQDVYKI GGIGTVPVGRVETGVLPKPMV VTFAPDNVTTEV*SVEMHHEA LSEALPGDN/VGAFNVKNVSVK DVRRGNVAGDSKNDPPMEAA GFTAQVILNHPGQISAGYAPV LDCHTVAHIACKFAELKKK\DR RF\GKKLED\GPK\FWKSGDAAI VDMVP\GKPMCVESFSDYPPL GPFAVHDMRQT\VAGGAHQKQ VDKK\AAGA\GKVTK\SAQKAQ
11308	41676	A	11376	1	880	
11309	41677	A	11377	1304	2340	KETEAQRKRLRRNEPEEQEIRT RKTRSPQTPDQQTYYKGRNER LCGISQPTKEPTRGGFCRFRNPP SNRIFACWGKPAWTACNSLR ARRMLMERNARAAGSRKRMG RMDCWARVLD\NLAAEAKSEP EKKAGVKRICKRRCTGSSFDL\ DY*LFNGDYDDRMYSYPARVP PPPPIARA VVP\SKRQRVSGNTS RRGKSGFNSKSGQRGSSKSGKL KGDD\LQAIKE\ELTQIKRKSGF LFLGKTWEKIEKEQSKQAVEM KK**SQKEEQSSQLR*KKDET*C *RLEV LKGG\EDSA\EEGDLLD DDDNEDRGDDQLELIKDDKE\A EEEEEDDRD\SANGRIDDSLST

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11310	41678	A	11378	80	1141	ETQNRISPPSPSCEIFLIFSIFRL CEKPYHQTRSASNVTNKTDPRS MNSRVFIGNLNTLVVKKSDVE AIFSKYGKI\VGCSVHKGFALS SMLMKRNARA\AVAG\EDGRMI AGQVLD\NLAAEPKVN RGKAG VKRSAAEMYG/SQ*QNTLLRPL YFSSSFDLDYDFQRDYDRMY SYPARVPPPPPIARAVVPSKRQR VSGNTSRRGK\SGFNSKEWNSG VSSKFWKR*KGDDLQ\AIKEEL TQIKQKVDSL\LENLEKIEKEQS KQAVEMKNDKSEEE\QSSSS\LK KDET\NLKMESEGGCRLTLPEE GDP\LD**YDE**RSGGNDPAGS *SKDDEK\EAEE\GEDDRD\ISAN G\EDDS
11311	41679	A	11379	1	1134	
11312	41680	A	11380	1	642	
11313	41681	A	11381	397	898	
11314	41682	A	11382	1	663	
11315	41683	A	11383	44	398	ATMLGLNIISRKWFYKSSEKSL GLRGGLGRPLAFTLYSLLQAAL LCVNAIAVLHE/ERRISSKNICA GGTRTIGIGWIWEKEPGIKSQL MNLIRSVRTEM RVPLIIVNSIAI VLLLLFG
11316	41684	A	11384	3	754	GLYYRK CQLISKEDVTHDTRLF CLMLPPSTHLQVPI/GEHVYLKL PITGTEIVKPYTPVSGSLLSEFKE PVL PNNKYIYFLIKIYPTGLFTPE LDRLQIGDFVS VSSPEGNFKISK FQELEDLFLAAGTGFTPMVKI LNYALTDIPSLRKVKLMFFNKT EDDIIWRSQLEKLAFKDKRLDV EFVLSAPISEWNGKQGHISPALL SEFWKRNLDKSKVLVCICGPVP FTEQGVRLHDLNFSKNEIHSFT
11317	41685	A	11385	1	1785	
11318	41686	A	11386	95	369	
11319	41687	A	11387	511	728	
11320	41688	A	11388	1	100	
11321	41689	A	11389	1	777	

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11322	41690	A	11390	2	707	PNPKCR*VFPVFLFYRPI*PFPSS PA/SLIARPS*VPILPQPPLL/TPY NPPTTSPPHTRSGLQFSSATSSSP PAQQFPLREVAGAEGIVNAHV FSLSDLSQISQHLGSFSSDPTKYI QEFRYLTLSYNLTWSDLNVILT STLSPDERERVFPVSQSH/V**P/ SGFMSQTSRKALEQFPERIPQW NYQANSPGKNFKN*NLALKPH NRN*STLPSTCTIHERKQPDGNA FLSYNYLPP
11323	41691	A	11391	2	339	LLFRSLPAKLNQAPILPWPL/PP PPYNPSITSPVHTWFSLQFHSET SPPPPAQQFPLRAVAGTEGIVR MNGKEFFLQPNLTLITAGFKSQ TSRKALEQFPERIPNGTIRQIPQ
11324	41692	A	11392	1	993	
11325	41693	A	11393	3	1127	TKETRFIHGPKTPAPVTDWEGS LPLVFNHCRDASLIHSRFGVR PHRDTCLGPSPLAASPAFLGKG QAAHCQAELSPNSSASTPPPY NPSITSPPHTRSGLQFSSATSSSP PAQQFPLREVAGAEGIVRVHVP FSLSDLSQISQCLGSFSSDPTKY TQEFQCLTSLYNLTWSDLNVIL TSTLSPDEWERVSSLAQSHADN VPGFTSQTSRKALEQFPE/TDPQ WNHQANSPGIARRDYMVSCLV EGLKKAAYKAVNYDKLKETTQ GEDENPAQVVARLAATLRRFT ALDPEGPEGRILNMHFITQSAP DITKKLQKLESGPQTPOQELINL TFKVHNNGEETDAARSPWKPP GPSRTPSFRACFPCPHNFCGY
11326	41694	A	11394	1	312	
11327	41695	A	11395	1	244	MFADR*LFSTTHQSIVPLYLALF GA*AGVLATAISLLIRAELGQP GNLLGNDHIYNVIVTAHAFVHIF FIVIPHIIGGFGN*LVPLIIGAPDM AFPRINNISF*LLPPSLLLLASVA IVEAGAGTRLNKSYPPLAGNY SHPWKPPVDLTIFSLHLAGVSSI LGAINFITTIINIKPPAITQYQTP FV*STTHQSHRTTIPIYSAHELA SSPQPLSLLIRAELGQPGNLLGN DHIYNVIVTAHAFVHIFVIVPIIIG GFGN
11328	41696	A	11396	1	1287	
11329	41697	A	11397	3	583	

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11330	41698	A	11398	3	419	ILSISKLR TSLAGEGSVDTPKAS GVTRHIKGP GVAAEMSAFILPL PG*VSPGWEWAASAVLNLRT TLALRRGVCLIRSRPGLGLED GASPRTESLHTGTACKGAVDGS SEVDEKLKRIALDFLGLHGGDD PRSSWH
11331	41699	B	11399	1	1242	
11332	41700	C	11400	504	755	
11333	41701	A	11401	155	710	ETETTGEREGSLSNHPSNPTAA GLSLDTMKSHCPNHSSLLSTAA SPPKLWRCFKEEH\ELAVLGAP PKLLPPTSHRDPTSASVYLRAP THVVWSLFKHPLS*TPCCMGFI AFA\YSVKSRDRKIGCERDPGPI AYASTAK\CLNIWALILGLLHD HSGSSSPVLIVPGLWDRSGGIT GGQELCP
11334	41702	A	11402	1	1158	
11335	41703	A	11403	80	996	LKGKFLMSG\ALDVLQMKEE DVLKFLAA\GTH\GGTNLD\FH MEQYIYKRKSDGIYIYLMRTW EKLL\LAARAIVAIENPADVSAI SSRNTGQRAVLKFAAATGATPI AGRFTPGTFTNHIQAAFRE\PRIL LVVTDPRADHQPLTEASYVNLP TIALCNTDSPLRYVDIAIPCNNK GAHSVGLMWWMLAREVLRM RGTISREHPWEVMPDLYFYRDP EEIEKEEQAAAEKAVTKEEFQG EWTAPAPEFTATQPEVADWSE GVQVPSVPIQQFPTEDWSAQPA TEDWSAAPTAAQATEWVGATTD WS
11336	41704	A	11404	1	819	
11337	41705	A	11405	1	1032	
11338	41706	B	11406	63	344	
11339	41707	A	11407	49	281	FFKSTVCSFQKQFQTLVPPIGGS IMY*DISDHRGQR**NVGPCGH
11340	41708	A	11408	985	1213	TQCVTINY*GMKWGSFGYIVFH KDGCALIDKRFTFCVSFKGSQ IQSSAAFLIPDVQVHQRLQKDF QGLMPVIVGS
11341	41709	A	11409	1	774	
11342	41710	A	11410	3	249	
11343	41711	A	11411	3	619	
11344	41712	A	11412	3	493	

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11345	41713	A	11413	3	292	DALPRWPSGSGDGGAVREAGQ QGTRLERPAAVLIRAADPGRRT QALA/GLPRG*PHPRMDPPESFQ ATGGTQQMTSTAPSWLTM*LR SVSGW*ELKD
11346	41714	B	11414	190	315	
11347	41715	A	11415	227	545	
11348	41716	A	11416	1	1896	
11349	41717	B	11417	52	1822	
11350	41718	A	11418	1	458	
11351	41719	C	11419	196	327	
11352	41720	A	11420	258	375	TRALSKFGSSRVEQS*AGYSGP GTP*EGGSGILGETVC
11353	41721	A	11421	3	854	
11354	41722	A	11422	1	434	MTVSKNKCHTKGGKKGTEKK VVASFSKIYWYNVKAPAMFSIR NIGKALVIGTHGTDFVSDGFKG GLIEIPDSIGKDKEKACRSIYPLH DVFVRKVKMLKKPKFELGKLM ELHGEGRSSGKATGNESGA/KV E*ADGYGSPAQKSF
11355	41723	A	11423	1	642	
11356	41724	A	11424	260	534	
11357	41725	A	11425	1	438	
11358	41726	C	11426	391	750	
11359	41727	A	11427	786	926	AQQQRQETIQGGRSLSRTL* GRSGTSLSQKLAQLSSLTGDST
11360	41728	A	11428	488	649	VLQLLKVAHPELFIPPGGFVFSL TSGVKLHT*ALQLLKVAHPELL IPPGSWSH
11361	41729	A	11429	1	2028	
11362	41730	A	11430	1022	1417	SLMGTSTSSALGMHVPRITRD VLSAPVIVSGNTAKFCTMLGHF LKKTRTERRDIQAP*SFISLPPKS TWEKLSSAAMVSTLR*GASDQ K/C*LLGGNDRVSLIVIQVEGAPL QDPGTLGRLLQSLTVKRISV
11363	41731	A	11431	1	535	
11364	41732	A	11432	3	1186	
11365	41733	A	11433	201	458	QVDGCIPELV*F*KKRGRRRGR RGRRRRRRRGRREEGGGGGGG SFWRTHHTKPKDQHKKDTMG HFRSCAFQEGFVVHVPLLSSEK
11366	41734	A	11434	1392	1532	AQQQRQETIQGGRSLSRTL* GRSGTSLSQKLAQLSSLTGDST
11367	41735	A	11435	1253	2820	
11368	41736	A	11436	1504	1718	VIGIWALALGILARPQRGFHV HLQDVGGAAA*AAKGLLRNVV R**VDQVQVSGAQGIAGVVVT VGGEEDF
11369	41737	B	11437	1	1383	

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11370	41738	A	11438	3	310	VHGRASSLGVG/TPIPKGHGQIK P/DRLKPPVYGACKLLDMELEM AFFVGPGNRLGEP/IPISKAHEPI FGMVLNNAWSARHIQKWEYV PLGPFLGKSFGTPVKSS
11371	41739	A	11439	1	1337	MSFIPVAEDSDFPPIHNLPGVFS TRGDPRPRIGVAIGDQILDLSIK HLFTGPVLSKHQDVFNQPTLNS FMGLGQAAWKEARVFLQNLLS VSQARLRDDTELKCAFISQAS ATMHLPATIGDYTDFYSSRQHA TNVGIMFRDKENALMPNWLHL PVGYHGRASSVVSGTPIRRPM GQMKPDDSKPPVYGACKLLDM ELEMAFFVGPGNRLGEPISKA HEHIFGMVLMNDWSARDIQKW EYVPLGPFLGEEFWGHCLLPW VVPMDALMPFAVNPQKQPRG PCRYLCHDEPYTFDINLSVNLK G\EGMSQAATICKVQILKMYMY WT\MLQQAHSPTLSNGC\NL\RP GDLLGFLGPI\SGPGAQKNFGS\ MLELSWKGTKPID\LGNGQTR KFLLD\GDEVIIITAMATRDFKW YS\QGDGY\RIGFGQ\CAGKVLP ALLPIMRFFLLF
11372	41740	B	11440	100	383	
11373	41741	A	11441	1	263	MEYYAAIKKDEFMSFVRIWMK LETIILSKLSQGQKTKHRRFSLI DG/IHRSFTRTENSQRTGRKC WN**PTCGLARSWFGKTWSGN
11374	41742	A	11442	2	160	
11375	41743	A	11443	150	308	CLHR*GRGSPRPGGGSTGGA GPGAGPSLAPPLPAQNAEGLGG RRRGNKYL
11376	41744	A	11444	1	372	
11377	41745	A	11445	49	177	SQQGLYAKPTSSQAL*GDGQAS AEMGRILSYE*EHAVFGFSSL
11378	41746	B	11446	1	420	
11379	41747	C	11447	1	334	
11380	41748	C	11448	1	268	
11381	41749	C	11449	1	564	
11382	41750	A	11450	1	264	
11383	41751	A	11451	33	194	
11384	41752	C	11452	1	309	
11385	41753	A	11453	1	738	
11386	41754	A	11454	1	2028	

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11387	41755	A	11455	3	1008	LKDAVFSIRISPESQKLFAFQWE DPESGVTTQYTWTLTQGFENS PTIFGEALARDLQKFPKDLGCI LLLYMDDLGLGHSTAVRCAKG MDALLQHLEDGKGVSKKKA QICRQQVTKWGDWERFEWEPL QQQAFCKLKEKFMSAPALGLP DLTKPFTLYVSEKTAAGVLI QTVGPWPTPVAYLSKQLDGVS KGWPPCLRALAATALLAQEAD KLTLVQNLNIKAPHAVGTSAQ KPELIALTRALESEGTMKLE THLSKLSQGGK/DQTLHVLGTIS RST*ACSCLASLQVGLETGSQL SLENPLRVGIQRRRCFTCAVDG EGFLLGVPMA
11388	41756	A	11456	677	879	KRRNHQILEIRSHLQSVEDNLK SGLGSTASL*MSWTQPRNGAE VGFLILGYIKETPRNAETPSMV
11389	41757	A	11457	1	624	
11390	41758	A	11458	3	130	VEEEQGHSEFRNAR*IISW*RNEN GLDRMDCSCRNGERDKGHG
11391	41759	A	11459	1	1477	MADPPWSSVQVKNKYDSGLLSS VSAEPLASSASSHPGMSDNAPA SLESGSSSTPTNCSTSSAIPQPGA ATKPWRSKSLSVKHSATVSML SVKPPGPEAPRPTPEAMKPAPN NQKSMLEKLLFNSKGGSKAG EGPGSRDTSCERLETLPSEFESE ELEAASRMLTTVGPASSSPKIAL KGIAQRTFSRALTNNKSSLKGN EKEKEKQQREKDKESKDLAK RASVTERLDLKEEPKEDPSGAA VPEMPKKSSKIASFIPKGGKLNS AKKEPMAPSHSGIPKPGMKSM GKSPSAPAPSKEGERSRSGKLSS GLPQQKPQLDGRHSSSSSLASS EGKGPGGTTLNHSISSQTVSGS VGTTQTTGSNTVSVQLPQPQQQ YNHPNTATVAPF*EGFHLP*HA *VITF*TANYASSDNDLVGYT H*LTASEFFQSRSSSLGEVAGLH AHTC*A*LGSNIPFSVRLRPVA ASAEDLRGHQGLIKDRAQVS
11392	41760	A	11460	1	327	LLLMGLKHNVLKLPKPMVTL RESVWETLNLFLK*SFV*LNMLIF KKSS*RLQ*VRFHFLCPRVLIVQ LPFMSENMRCLVFCSCVSLLRM MVSSFIHVPPFKVLSFFALG
11393	41761	B	11461	119	203	
11394	41762	B	11462	1	677	

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11395	41763	A	11463	2	74	
11396	41764	A	11464	1	1256	MSASQDSRSRDNGPDGMEPEC VIESNWNEIVDSFDDMNLSESL LRDIAYGF EKPSAIQQQAILPC IRGYNVIAQARSGTGKMATFAI SILQQIELDLKATQALVLAPTRE LAQQIQKVVMALVDYMGASC HACVRGTNMRAEVQKLQMEA PHIIVGTPSRVFDMLYR\RYLAP\ KSIRMLVLNEADEMLSRGFKG QIY\DISKRNLNSTTK\VVLLSAT MPFDVLEVTKKFMRGPH\IRIL VKKEELPLEGIRHFYINVEPEE\F NLDTLCDWYEP*PIT\QAVIFHQ PPGGKVDW/LSPEKMHARDST VPPMHGDMTKKE\RD\VIMREF RSGS*PEF*ITPLTPGQRPLMC QPGFL*SFKLMTLPPPTRGKLLI HRNRSRVDRFGRKGVA\INMVT EED\KRTL\RDIEIFYNTSIEEMP
11397	41765	A	11465	1	402	KSRGRGLPYTMDAFMLGMGM LKYPNFVAT*ARGYPGFAPSYG YQFPGFPAAAYGPVAAA AVAA ARGSGSNPARPGGFGANSPGP VADLYGPASQDSGVGN YISAAS PQPGSGFR/HTGIAGPLIATAFT NGYH
11398	41766	A	11466	226	486	
11399	41767	A	11467	2	432	
11400	41768	A	11468	1	834	
11401	41769	A	11469	205	570	
11402	41770	B	11470	61	939	
11403	41771	A	11471	96	269	
11404	41772	A	11472	123	593	VAVLEARLLSPVRASKMTKKR RNNGRAKKGRGHVQPIRCTNC ARCVPKDKA\IKKFVIRNIVEAA A\VRDISEASVFDAYVLPKL\YV KLHYCVSCAIHSNVVMESISVK ARKD\RTPPPRFRPGGCWPHVP PPKPNVRELEFFKDLKDRLISS WEEK
11405	41773	A	11473	1	228	
11406	41774	C	11474	187	423	
11407	41775	A	11475	1	546	
11408	41776	A	11476	1	1254	
11409	41777	A	11477	1	1386	

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11410	41778	A	11478	1	1445	HLKAKMGKEKTHINIVVIGHVD SGKSTTTGHLIYKCGGIDKRTIE KFEKEAAEMGKGSFKYAWVL DKLKAERERGITIDISLWKFETS KYYVTIIDAPGHRDFIKNMITGT SQADCAVLIVAAGVGEFEAGIS KNGQTREHALLAYTLGVKQLI VGVNKMDSTEPPYSQKRYEEIV KEVSTYIKKIGYNPDTVAFVPIS GWNGDNMLEPSANMPWFKGW KVTRKDGNASGTTLLEALDCIL PPTRPTDKPLALPLQGVH\KLG GIGTVSSAPMET\GFSNPGMVV TFAPSPR*QRKVKSVE\MH\HEA L\NEALSGEQCGLSMSKKVSVK ECFVRGN\VAG*PAKNDPTQWE ASWLSLLQVIILEPSQAQISAGL CPLYWDC\HTGSHLHAKFAELK EKIDRR\SGKKV\EDGPKIL/RS L GDAAIVDMV\PG\RPMCVESFS DYPPLGRFAVRDMRQTVAVGV IKAVDKKAAGAGKV\TKSAQK
11411	41779	A	11479	1	996	

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11412	41780	A	11480	1	1875	MPSDLAKKKAAKKKEAAKAR QRPRKGHEENGDVVTEPQVAE KNEANGRETTEVDLLTKELEDF EMKKAARAVTGV LASHPNST DVHIINLSLTFHGQELLSDTKLE LNSGRRYGLIGLNGIGKSMLLS AIGKREVPPIEHIDIYHLTREM PSDKTPLHCVMEVDTERAMLE KEAERLAHEDAECLELMELYE RLEELDADKAEMRASRILHGLG FTPAMQRKKLKDFSGGWRMR VALARALFIRPFMLLLDEPTNH LDLDACVWLEEELKTFKRILVL VSHSQDFLNGVCTNIIHMHNKK LKYYTGNYDQYVKTRLELEEN QMKRFHWEQDQIAHMKNYIAR FGHGSAKLARQAQSKEKTLQK MMASGLTERVVS DKTLSFYFPP CGKIPPPVIMVQNV SFKYTKDG PCIYNNLEFGIDL DTRVALVGP NGAGKSTLLKLLTGELLPTDG MIRKHSVVKIGRYHQHLQEQL DLDLSPLEYMMKCYPEIKEKEE MRKIIIGRYGLTGKQQVSPIRNL SDGQKCRVCLAWLAWQNPHM LFLDEPTNHLDIETIDALADAIN EFEGGMMMLVSHDFRLIQQVAQ EIWVCEKQTITK WPG\DIL\AYK EHLKSKLVD\EEPQLTKELPTTC
11413	41781	A	11481	194	418	YGLASVSPTQISSSSCNPWMFE GGTLVGGDWIGSHDSEGLTR SGCLISVWHFSCAVSPATL*RRC LLLLRLPP
11414	41782	A	11482	1	675	
11415	41783	A	11483	1	1125	
11416	41784	A	11484	1	711	
11417	41785	A	11485	673	796	
11418	41786	A	11486	3	570	RLQEFGTRNRHLPVNSPKLTNT KGKRRGTRVYMF SRPFRKHGV VPLATYMRIYKKGDIVDIKGM GTVQKGMPHKCYHGKTGRVY NVTQHA/VMGIVVYKQA*GQR FLPKRI*CCVIEH\KHSKSRDSF \LK\RVKENDQKKKEAKE\KGT W\VQL\NRQLAPPREAHFVRTN G\KEPGACWNPIPYEFHGHNR
11419	41787	A	11487	1	2091	
11420	41788	A	11488	1	2208	
11421	41789	A	11489	430	1032	

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11422	41790	A	11490	3	1158	EDQIDRLDFIRNQMNLLTLDVK KKIKEVTEEVANKVSCAMTDEI CRLSVLVDEFCEFHNPDPVLKI YKSELNKHIEDGMGRNLADRC TDEVNALVLQTQQEIIENLKP PAGIQDKLHTLIPCKKFDLSYNL NYHKLCSDFQEDIVFRFSLGWS SLVHRFLGPRNAQRVLLGLSEPI FQLPRSLASTPTAPTPATPDNA SQEELMITLVTGLASVTSRTSM GIIIVGGVIWKTIGWKLLSVSLT MYGALYLYERLSWTTHAKERA FKQQFVNYATEKLRMIVSSTSA NCSHQVKQQIATTFARLCQQV DITQKQLEEEIARLPKEIDQLEKI QNNSKLLRNKAVQLENELENF TKQFLPSSNEGSVTIEIALVT LIG GNNRL
11423	41791	A	11491	132	381	SKAESVFPPTLPRQRPAAAAGP HWGAG*GQDEAGLHPGPEDRG FLRETPADPGLQAGLGQVHPPR SRADPPAPYQVPPRMGT
11424	41792	B	11492	129	470	

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11425	41793	A	11493	1	1955	FVSCQAPWSHPPAQLSPVGADA MTLTLSVLICLGLSVGPRTC VQAGTLPKPTLWAEPASVIARGK PVTLCQGPLETEEYRLDKEGLP WARKRQNPLEPGAKAKFHIPST VYDSAGRYRCYYETPAGWSEP SDPLELVATGFYAEPTLLALPSP VVASGGNVTLQCDTLDGLLTF VLVEEQKLPRTLVSQKLPKGP SQALFPVGPVTPSCRWRFCYY YYRKNPQVWSNPSDLLLEILVPG VSRKPSLLIPQGSVVARGGSLTL QCRSDVGYDIFVLYKEGEHDL VQGSQQPQAGLSQANFTLGP VSRSHGGQYRCYGAHNLSRW SAPSDPLDILIAGLIPDIPALS VQPGPKVASGENVTLLCQSWHQID TFFLTKEGAHPPLCLKSKYQS YRHQAEFSMSPVTSAQGGTYR CYSAIRSYPYLLSSPSYPQELVV SGPSGDPSLSPTGSTPTPGPEDQ PLTPTGLDPQSGLGRHLGVVTG VSVAFVLLLFLLLFLLLRHRHQ SKHRTSAHFYRPAGAAGPEPKD QGLQKRASPVADIQEEILNAAV KDTQPKDGVEMDARAAASEAP QDVITYAQLHSLTLRREATEPPP S\QEREPPAEPsiYAPLAIHLAHG GPRSHTQQKETQRLQKARELPP VDTNEPQPAWDP

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11426	41794	A	11494	22	1991	GLIPLQSAGSPEGDAMTPALTA LLCLGLSLGPRTRVQAGPFPKP TLWAEPGSVISWGSPVTIWCQG SLEAQEYQLDKEGSPEPLDRNN PLEPKNKARFSIPSMTQHHAGR YRCHYYSSAGWSEPSDPLELV MTGAYSKPTLSALPSPVVASGG NMTLRCSQKRYHHFVLMKEG EHQLPRTLDSQQLHSGGFQALF PVGPVNPSHRWRFTCYYYMN TPRVWSHPSDPLEILPSGVSRKP SLLTLQGPVLAPGQSLTLQCGS DVGYDRFVLYKEGERDFLQRP GQQPQAGLSQANFTLGPVSPSN GGQYRCYGAHNLSSEWSAPSD PLNILMAGQIYDTVSLSAQPGP TVASGENVTLLCQSWWQFDTF LLTKEGAHPPLRLRSMYGAH KYQAEFPMSPVTSAHAGTYRC YGSRSSNPYLLSHPSEPLELVVS GHSGGSSLPPTGPPSTPGLGRYL EVLIGVSAFVLLLFLLLFLLLR RQRHSHKRTSGLRLCPSSPRPE K\ADFQRPAGAAETEPKDRGLL RRSSPAADVQEENLYAAVKDT QSEDGVEIYTRQSPHDEDPQAV TYAEVKHSRPRREMASPPSPLS GEFLDTKDRQAEEDRQMDTEA AASEAPQDVTYAQLHSLTLRRE ATEPPPSQEGPSPAVPSIYATLAI
11427	41795	A	11495	1	1818	
11428	41796	A	11496	3	574	IRCSSVDPRVRPRVRGASGAAA YCCRHVSIPRDHTTHNQSRKW HRNGIKKPRSQRYESLKGVDPK FLRNMRFAKKHNTKGLKKMQ ANNAKAMSARAEAIKALVKP KEVKPKIPKGGQPINLIRLAYIA HP\KLGKRARARI\AKGLKLCRP K\AKAKAKAKAKDQTKAQAA APASVPAQAPKRTQAPTQASE
11429	41797	B	11497	45	331	
11430	41798	A	11498	1	1779	
11431	41799	A	11499	1	837	

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11432	41800	A	11500	3	557	ERGYSFTTTAERDIVRDIKEKLC YVA\LDFEQEMATAASSSSLEES YE\LPDGGVITIGNE\RFRCPEAL FQPSFLGMESCGIHETTF\NSIM K\CDVDIRKDL\YANTVLSGGTT M\YPGFADRMQKEITALAPSTM KIKIIAPPERKYSVWIGGSILAS LSTFQQMWISKQEYD\ESGPS\I VHRKCF
11433	41801	A	11501	1	1188	
11434	41802	A	11502	1	684	
11435	41803	A	11503	1	1398	
11436	41804	A	11504	22	1239	
11437	41805	A	11505	837	971	
11438	41806	C	11506	1	3018	
11439	41807	A	11507	23	368	
11440	41808	A	11508	1	816	
11441	41809	A	11509	1	441	
11442	41810	A	11510	195	293	IKVSPSGRDPVRDN*ITW*FLPY CSSTTGSLH
11443	41811	A	11511	56	372	MELPASPALFARTPQPLGGRW DWAPWSRGWRSSRRLGPHRSP RRGSEAQAWRAAGPEPCPAGR QLRPVNIEWLFALILTHTFGTQ VLA*TSQALI*NPRVLYPD
11444	41812	B	11512	108	326	
11445	41813	A	11513	3	326	GSKKKFH*HSRILERSRSWRTS YQGRPQEPSWLHPVDPHRGCR WSCLPVPCRAPSTPQPLGGRWD WAPWSRGRRLSGRLGPHRSPR NRGRLRHGGLQVPSRASQEGS
11446	41814	A	11514	3	619	VRDIHGSPTTHRPGGRLRGKNGF VGEARDPRYRSGHCFRECRTO ALVAFT*C*SCGFTEVK*GLSC LPAGQGS GPAARHV*ASHPLHG LPCGPSLP/NRAPPTPRRPVPST TQGLRNASARRGTGRQLHLQP WCGIH*VKPAGLLSLLHGQAC GDPATPSRERLSQPAVPTALGS RRRLLLGPA GSPGSSLPPSRQPP GGRRRPP
11447	41815	B	11515	1	1524	
11448	41816	A	11516	1	1365	
11449	41817	B	11517	1	654	
11450	41818	B	11518	1	795	

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11451	41819	A	11519	486	929	QKQEEWPEDTYPRALAAFPR GRARDLQPAMPEPPTLSMGS APEPPRGAPPPAPRRRIPSTTQ LRSSGAGRRTCRQLHLQPRCRI HWVKPAGLLSLWLFQMHSASC WWNYHSGAWRMVALFSWLH* ECPSGESGAPILHFPFALP
11452	41820	A	11520	35	473	VLQLLRHVWSCSFPPGVVVS ALAVKLQTFVTQEPSWLHPVD PAPGLQVELPASPLQCTRSTSQPL GGRWDWAPWSRGRSSGRLGP HRSPWRG*EAQAWRAAGPEP/ WPRGKA/C*GPARNRAKRRFP CTF*EEVTVCSPPQKRGGD
11453	41821	A	11521	23	229	RSWNPQTLFVGMYNATAAWK PI*QFLKKLNMKLP*DPGREPLN QTG*KGKRGGQEAFLEKGISSR MSQ
11454	41822	B	11522	152	901	
11455	41823	A	11523	1	3063	
11456	41824	A	11524	242	263	VLQLIKAVWTQRTQEPSWLHP VDPALGLQVELPASAPCACTP QPLG\PLLPGPLPLWRHLRSPSVH HCTVGAPFWAGQGRSPLPQRR CALFLAGP
11457	41825	A	11525	1584	2082	QRAGSPHSPRSLVPPPLPGLPLW RHLRSPSAHRCMTMGAPFWAGQ GHSRLPQLAGRRGGRGASGNR CCVQRLQASWSSRWAWRA PHSEQPAGPAGPGQ*GTWHPG QRLQRMVWVLQQCRLTGAVL DFSPGLSCLPAGQGS GPAARHA *AFHPLHGLLCGRSLPD
11458	41826	A	11526	1293	1558	CIQHCHHCCCRCRASAAGAA SLQGSTHVRIQH\CTP\CPVLLTP SVRLRDVCTRSIWPLVVTGLPS AMNVSSWCSTSSPAFGVLVLWI
11459	41827	B	11527	179	1031	
11460	41828	A	11529	1	342	
11461	41829	A	11530	1	3081	
11462	41830	A	11531	1	371	
11463	41831	A	11532	1	501	
11464	41832	A	11533	1	836	
11465	41833	A	11534	88	573	
11466	41834	A	11535	1	675	
11467	41835	A	11536	1239	1556	FLSLPTFLFVIFSGEEELLVLALV FLSLFFFFFFLRFSAVVAQAV\ VQWHNLSSLPGFKQFSCLSLP SSWDYRCPPPRPANFCIFTRDG VSPCCPGWSRTSDLR

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11468	41836	A	11537	2	375	ASIEIDSLYEGIDFYTSITRARFE ELNADLFRGTLDPEKALRDA KLDKSQIHDIIVGGSTRIPKIQ KLLQDFYEAVAYGA AVQAAIL SGDKSENVQDLLSLDVTPFP LGIETAGGVMTVPH
11469	41837	A	11538	2	295	NRMGNHFIAEFKRKHKKDISEN KRAVRLRTACERAKRTL/SSST QASIEIDSLYEGIDFYTSITRAPF EELNAWGISWWWLPPPVGAS SGPTIEEVD
11470	41838	A	11539	1	1659	
11471	41839	A	11540	1	810	AGKPHCGGEFCTPNVHHFFR*F *ANPKRTII/ENKEALTPPTV/C* RAKPTLSSAPRAVI/EIDSS*E/GI GLYTSITPPRFEELNADLFLAPL TPVEKALRNA\KLDKSQIHDIIV \GGSTRIPKIQSFLQDFNGKE LNKSINPDEAVAYGA AVQAAIL SGDKSENVQDLLLDVTPLSLG IETAGGVMTVLIKRNTTIPTKQT QTFTTYSN\NQPGVLIQVYEGER AMTKDNNLLGKFELTGMPGG MPGGFPGGGAPPSGGASSGPTI EEVD
11472	41840	B	11541	848	2399	
11473	41841	A	11542	1	876	
11474	41842	A	11543	16	1203	SIPHEPWPVSLLLFQEQVPGKK ELRKGLALLEAIISICGSLDKVL KEKRKLFHSMGEGTINGLLDE LLQTRVLNQEEMEKVKRENAT VMDKTRALIDSVIPKGAQACQI CITYICEEDSYLAETLGLSADQT SGNYLNMQDSQGVLSFPAPQ AVQDNPAMPTSSGSEGNVKLC SLEEAQRIW\EQKSAEIYPIMDK SSRT\RVALLICNEEFDSIPRRTG AEVDITGMTMLLQNLGYSVDV KKNLASDMTTELEAFahrPE HKTSDSTFLVFMShGIREGICG KKHSEQVPDILQLNAIFNMLNT KNCPSLKDKPKVIIIQACRGDSP GVVWFKDSVGVSGNLSLPTTE EFEDDAIKKAHIEKDFIAFCST PDNVSWRHPTMGVSFIGRLIEH
11475	41843	A	11544	2	654	
11476	41844	A	11545	3	291	LIPLLRPLVQSGGIPMGKFMK PGKVVLVLAGRYSGRKAVIVR YSVDIPLDKTVVNKDVFRDPAL KRKARREAKVKFEERYKTGKN KWWFQKLR

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11477	41845	A	11546	157	386	
11478	41846	A	11547	2	531	FWQESASGHLWLSGFLSGPFSL LSAEMGKFMKPGKVVLVLAGR YSGRKAIVVKNIDDGTSRPPYS HALVAGIDRYPRKVTAAMGKK KIAKRSKIKSFVKVYNYNHLM TRYSDIPLADKTVVNKDGFTD PALKRNARMEA\KVKFEERYK TGKNKWFF\QKLRVLD AFVLI KNYKE
11479	41847	A	11548	1	414	LGGLKGTWGETKPAMAAAE DGGPEGPNRERGGAGATKTL YTGNHLFSPQWLETRPERQEC VCKAGISREKVVGEKSLTFSL HFLRLKTPQICRLPV*LFLPP*GF QPF GDTGGFHFSGVGAFPF FNPSY
11480	41848	A	11549	1	654	
11481	41849	A	11550	3	663	RGQEVVSGLLGRVYVYLGLK GTWGETKPAMASAE VPNRERGGAGRPKTPFECNICL ETAREAVVSVCGHLYCWPC QWLETRPERQECVCKAGISR EKVVP\LYGRGS\QRSPQDPRIK NSPRPPGGRGPAPE\SRGGSQPF GDTGGFHF\SGVGAFPF VFNAHEPFRRGTGVDLG\QGH PSLQLGKEFPLPGFSAIFFLFWL
11482	41850	A	11551	3	369	
11483	41851	A	11552	375	851	
11484	41852	A	11553	1	927	
11485	41853	A	11554	104	845	

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11486	41854	A	11555	200	1496	ETIQAVVFMSLHFLYYCSEPTL DVKIAFCQGFDKQVDVSYIAKH YNMSKSKVDNQFY SVEVG DST FTVLKRYQNLKPIGSGAQGIVC AAYDAVLDRNVAIKKLSRPFQ NQTHAKRAYRELVL MKCVNH KNIISLLNVFTPQKTLEEFQDVY LVMELMDANLCQVIQME LDHE RMSYLLYQMLCGIKHLHSAGII HRDLKPSNIVVKS DCTLKILDF GLARTAGTSFMMPYVVTRY Y RAPEVILGMGYKENVDIWSVG CIMGEMVRHKILFPGRDYIDQW NKVIEQLGTPCPEFMKKLQPTV RNYVENRPKYAGLTFPKLFPDS LFPADSEHNKLKASQARDLLSK MLVIDPAKRISVDDALQHPYIN VWYDPAEVEAPPPQIYDKQLD EREHTIEEWKELIYKEVMDSVEE KT*KWC*LKGQPS\SAQVQQ
11487	41855	B	11556	56	1564	
11488	41856	A	11557	1	970	
11489	41857	A	11558	1	903	
11490	41858	A	11559	237	479	PVGTNTECEIPFQPMETGHSSR VDASGYK*PCLLC SVYSRGKTA GECTLF*VHHFLSSLCPVNLGA NNQLHYIPWFSTDG
11491	41859	A	11560	1	477	
11492	41860	A	11561	125	1133	
11493	41861	A	11562	1	837	
11494	41862	A	11563	2	708	CQHYKFRYHQQGEQEPP LN PHGAARAEVYL RKCTFDMFNF LASQHRVLPEGATCDEEDEVQ LRSTRATSLELPMAMRFRHLK KTSKEAVGVYRSAIHGRGLFCK RNIDAGEMVIEYSGVIRSVLTD MRKKFYDGKGIG\CYMF SMDD FDVV DATMHGNAARFINHSCE PNCFSGVIPGGGPENKIVIFGLR RILGGEEVNLRTKKFPIE\DAK\N KLPC\NCGAKRCRRFLN
11495	41863	A	11564	2	136	
11496	41864	A	11565	1	551	AILYAKRASVFVKLQKPNAAIR DCDRAIEINPDSAQPYKWRGKA H/RAQKIAEHRKRYERKREEREI KERIERVKKAREEHERAQREEE ARRQSGAQYGSFPGGFPGGMP GNFPGGIPGMGGGMPGMAGM PGLNEILSDPEVLAAMQDPEVM VAFQDVAQN PANMSKYQSNPK VMNLISKLSAKK

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11497	41865	A	11566	1	804	
11498	41866	A	11567	64	1215	PPSFAHHLPTMDPRKVNELRAF VKMCKQDPSVLYTEEMRFLRE WVESIGGKVPPATQKAISEENT KEEKPDSSKVEEDLKADEPSSE ESDLEIDKEGVIEPDTDAPQEM GDENAEITEEMMDQANDKKVA AIEALNDGELQKAIDLFTDAIKL NPRLAILYAKRASVFKLQKPN AAIRDCDRAIEINPDSAQPYKW RGKAHRL\LGHWEEAAHDLAL ACKLDYDEDASAMLKEVQPR QKIAEHRRKYERKREEREIKERI ERVKKAREEHERAQR\EEARR QSG\AQYGSFPGGFLGG\MPGN FP\GG\MPGMGGG\MPGMG\GM PGLNEILSDPEVLAAMQDPEVM VAFQDVAQNPA\NMSKYQSNP K\VMNLISKLSAKFGGQA
11499	41867	A	11568	1	265	VKAKIQDKEGIPPDQQLIFAG KQLEDGRTLSDYNIQKESTLHL VLRLRGGIIEPSLRQLAQKYNC DKMICR/KKCGHTNNLRPKKK
11500	41868	A	11569	3	318	
11501	41869	A	11570	7	57	RFFNFLGGIP/P*SGPKGMTL/DQ TQGSKSKQIQWPALTFKPLVER NIPSSVTAVEFLVDKQLDFLTE DSAFQPYQVRNFRLLFKIKG*L NFIDIQTFFKQYSLNISSNF*LC EKPNECSQLILLIG*TVY*FFNFL GGIPLNLGQKE
11502	41870	A	11571	1	2109	
11503	41871	A	11572	50	251	
11504	41872	A	11573	1	1922	
11505	41873	A	11574	2	479	
11506	41874	A	11575	1	909	LILTSVLLFQRHGYCTLGEAFN RLDFSSAIQDIRTFNYVVKLLQL IAKSQLTSLSGVAQKNYFNILD KIVQKVLDDHHNPRLIKDLLQD LSSTLCILIRGVGKSVLVGNINI WICRLETILAWQQQLQDLQMT KQVNNGLTLSDLPLHMLTNILY RFSDBGWDIITLGQVTP\TLYML SEDRQLWKKLCQYHFAEKQFC RHLILSEKGHIEWEVCNFAF RKHYPAKEQYGRQHCIFCRHCS ILFWKDSGHPCTAADPDSCFTP \VSSQQFIALFQVLRAPCHPY WRFVNPAVCAGLIVSVL
11507	41875	A	11576	1	1035	

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11508	41876	A	11577	63	606	FAKNERTQRGKRRG\TRYMFSR PFARKIHGVVPLGPHICRIYRKG DIVDTQGNQVLFKKGMPHKCY PWPKLEGVLQLLPQHA\VAIVV NQPVLGQSFFPRE*IVRIEHI\KH SKSPR*ASLK/RVLKENDSEKER SPNEKGTWGSNLKRHLAPPQK KHTL*RTNGKEPEL\LEPIPYEFH GHNRC
11509	41877	A	11578	1	490	
11510	41878	A	11579	150	536	NCKISFLHFCYIFVKALKKRISAL SRGKILAKRINVRIEHIKHSKSR DSFLKRVKENDQKKKEAKEKG TWVQLKR/QGKNLVYISLVLRA L*G*DLTHHIIILFPFFFL**PAPP REAHFVRTNGKEPELL
11511	41879	A	11580	336	476	GMGTVQKGMPHKCYHGKTGR VYNVTQHAVGIVVNKQVK*VV LCG
11512	41880	A	11581	1	626	WAFRPEPPSSSKFAQNDGPQRG KRRGTTRYMFSRPF*ENHGVVP LAHIFMR\IYKKGDIVRHPRGM GYCSKKGMPPTSCYPWQKLGR VYNVTPAMLFIVCKQTKLKG NDSLPRG/ILMWRI*AHLRHF*G ARD/RASLKTCGRENGSRKKER KPKGGKVTWGFQLKRRHLGFP PQEEATFLLKEPIGGREP*ACLE PYFPYWISWGINRC
11513	41881	A	11582	499	723	
11514	41882	A	11583	96	411	PAPTSRCRRRRAPLPKKKAEGD AKGNKAKVKDEPQRRSARLSA KPAPPKPEPKPKKAPAKKGEKV PKGKKGKAD\AGKEGE*PLQKN GDAKTDQAQKAIEGAIGDAK
11515	41883	A	11584	3	493	
11516	41884	A	11585	588	759	GEGCGWAEVGRRCRPGPPDPAG PAGAAGP\GAARGGLFRGVLS SSRCGGGSSSSRSRGR
11517	41885	A	11586	213	626	
11518	41886	A	11587	1	645	
11519	41887	A	11588	1	739	
11520	41888	A	11589	327	676	NPNPSWNLAHVWDMDRK*EQ RGIQ/V**SNINKS*KEKMSMQC LEMPRNPDH*GRIDVSFQNLMR LTR*SQMGYLPWDLKQELETFS KLS*KQVMLSVVVTFVRNMLQ LRFLTFSFG
11521	41889	A	11590	11	328	

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11522	41890	A	11591	1	378	LFIVTVCPAFLRFSSAICDSFLIC PQVGGCVRRVLLVTGVLLSIS LDMAATGVSLGSSWSLFLGIW LMIRFQVS*WYPNWLLILSWRN ISITSTPSYYFTYFPTFCYQISPPN QLFCFCLCSWFL
11523	41891	A	11592	1	780	
11524	41892	A	11593	1	1461	MVTLMGHAALCLHYVMQLGT TGGAWYFPRASSQAREMPQCP TLESQEGENSEEKGDSSKEDPK ETVALAFVRENPGAQNGLQNA QQQGKKKRKKKRIIIISGKVLED FLALAMHFADEETGQKRCSLN QTIQLLITPDTGSIWHQAFLSSIV RRAAQYGFREGGEDDDWTL YWTDYSVSLERVMEMKSYQKI NHFGPMSEICRKDLLARNMSR MLKMFPKDFRFFPRTWCLPADP AQLDLWSQTFWPRPTAPDGT GADGLGLRLGSLGK/VSFWFPA CHGLG*PEASYTAS/MACGSLP/ WKLSTFSAYLEDHSYNVEQIW RDIEDVIAKTILSAHPHNYHT CFPNHTLNSACFEILGFDILLDH KLKPWLLETEKMQTAGALFISP ALPSYSNFPLQVARREFQTSVV SRDIDTAAKFIGAGAATVGAVG SRAGIGTVFGSLIIGYARNPSLK QQLFSYAILGFALSEAMGLFCL MVAFLILFAM
11525	41893	A	11594	1	2301	
11526	41894	A	11595	3	381	
11527	41895	A	11596	1	729	
11528	41896	A	11597	1	1006	MVKVKARVNEFGYTGCLVTRA AFNSGKVDIVAINDPFIDLNYLA YMLQYDSTHGKFHGTIKAENG KLVINGNPITIFQE*DPTKIKWG DAGTEYVVESTSIFTAMEKVGA HLQRGAKRVMIFAPSTEAIMFM MKVNYEKYDNSLKIISNASCTT NCLAPLAKVIHDNSGIVERLMI TVHVITTTQKTVDGPCRKLRPD GHRALQNIIPASTSTAKAMVKV IPELNKKLTGMASHVPTAKVLV VDPTCHL/EKPAKYDIKMM KQASEDPIKGILGYTEHQIVSSD FNSDTQSSTFDAGAGITLNDHF VKLISWYDNEFGYSNRVVDLM AHMASKE
11529	41897	A	11598	3	508	
11530	41898	B	11599	1	5068	

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11531	41899	A	11600	58	659	PVATTCECIFIHLGEADVWIGN AA/WELYYLEQSIQHDSMPSPD KTTG*GDN*FYASS\GAGKFVS RAVFINLEPIVTDEVCTGTYHQ LFHPEQLITDKEDAAHNYAWG HHDIGKIIGCYSTNKTCTIQFV DWCFTSLKVGINCQLPTVVPAG NLANIKRAACMLSNTIAIAEAW VCLGHKSDLSYANCSFVHQFFN KSIH
11532	41900	A	11601	511	1173	
11533	41901	A	11602	3	497	WCDGPQNRALICQQC/YSHNG MALKEEFYIAFRCA YCFFLNP ARKTRPQAPRLPEFSFEKRQVV EGSSSVGPLPSGVLSSDNQFNE ESLEHDVLDNTEQTDDKIPAT EQTNQVIEKASDSEEPEEKQET ENEEASVIETNSTVPGADSIPDP ELSGESLTAE
11534	41902	A	11603	2	764	
11535	41903	A	11604	1	444	
11536	41904	B	11605	44	1748	
11537	41905	B	11606	1	1134	
11538	41906	A	11607	1	549	
11539	41907	A	11608	212	548	
11540	41908	A	11609	1	905	ESVAAAAARAFPTAPKELERQQ RRRFRFHHLFLFPSLRTPCRVS SLQPWLWKATEVMAMFEQMR ANVGKLLKGIDRYNPENLATLE R\YVETQ\AKENAYDLEPNLAV LKLYQFNPAFFQTTVTAQILLK ALTNLPHTDFTLCKCMIDQATI QERNGPDPQIFVPSGTLLEDPA HFPGPFWQTPGNGRACQKAWD ENHWTLFGKVL\TGF*RLLVRK FIC\HVVGYYHLPSHIDR\WLLAE MLGDLASDKPAKRCWMSKIRLR EDDRRGQIFICS\QE*EHLNPRN\ IVEKIDFDSVSSIMASSQ
11541	41909	A	11610	186	209	QLWPN*LLSRNKEATLRYSQLP TCHSICY*MPAF*HTISDLSFNK NINCKSYHLRVFYKYV*IVCHF *VPKVYWTKYYQTSCRT*WR* SGVE*PPISSSSSACCLLRRLPT EGTCPEIFWNPRLGISAECRDSC GPTSF
11542	41910	A	11611	2	2948	
11543	41911	B	11612	1	999	
11544	41912	A	11613	1	657	
11545	41913	A	11614	1	707	
11546	41914	A	11615	1	297	

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11547	41915	A	11616	1	1287	
11548	41916	A	11617	242	540	LTNEKKVQDQMDSQPNSTRGT RRSLYPFLCLKLFQLEKEGILPNS FYEASIIIPKPGRDTTTTTKEF* TNIPDEHRCKNPQ*NTSKPNPA AHPKAYPP
11549	41917	A	11618	193	916	
11550	41918	A	11619	1	2169	
11551	41919	A	11620	1	615	
11552	41920	A	11621	39	568	NSAWARRPLVLPLMSLVSPWK SSQHIFRVLNPPNLDGRRKNSP LPITCHLRVWARRYAHV\LRK AD\DLTK\RAGEL\TEDEVERVI TILQ\NPRQYKIPD\WFLNRQKD VKDGKYSQVLANGLDNKLRED L\ERLKEDSAPIEGLRHFWGLR\ VRGQHTQDQLGRRGRHRGASA GARR
11553	41921	A	11622	1	378	
11554	41922	A	11623	1	222	
11555	41923	A	11624	2	367	
11556	41924	A	11625	2	376	QTYSLRRATPRHIIVGFTKVEM KEKVLRAA/NKPIRLTVDLAET LQARKEGGPIFNILKEKNFQPRI SYPAKLSFISEGEIKSFTDKQML KDFVTTRPALQELLKEALNME RNNQYQPLQKHAKW
11557	41925	A	11626	1	633	
11558	41926	A	11627	164	714	IGVNRHLIQESPSWNLGAPLE QIFQRKEQAAIFAILQPLLVISRQ TGSGVDPQQTPADLQK/SGSDS REQNKTENEFDELTEIGCRRWV ITNSSELKEHVVTQCKEAKNLE KMLQELLTRITSLEKNINDLME LKNTAQELREAYTIINSQTDQA EERISEIEDQLNEIKGEDNIREKT VKRNE
11559	41927	A	11628	504	936	TESSSININKKDDHAKTPPKDH NSSPAREQNKTENEFDELTEIGC RRWVITNSSELKEHVVTQCKEA KNLEKMLQELLTRITSLEKNIN DLMELKNTAQELREAYTIINSQ TDQAEERISEIEDQLNEIKGEDN IREKTVKRIE

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11560	41928	A	11629	1949	3232	PGKQDLEWTSSKLQQTCTRRGT LLVEGKLTNRKE*HQHQQKLR PHGNLIQRDHNCSPARE\QNW MENEFDKLTEVGFRRTITNSSK LKERVLTQCKEATNLAKRLEK LLTRITSLEKNKNDLMELKNTA QELREAYTSISGRINQAEQRTSE IEDQLNEIKRRGVSVCPQPS EDT PRSTARVPKGMVPRPRVPLVT PPREKKEAPWLACLRTRALRILI DPPSQVWDIVSCDAENETKLEN TLQDIQENFPNLARQAN\VQIQ EIQRTPQRYSSRRATPRHIIVRFT KVEMKEK\MLRAAREK\GQVT HKAKPIRLTADLSAENLQAR/R TEWGPINFILKEKNF\QPRISYPA K\LSFISEGEIKYFTDKQMLRDF VTTTPALK\ELLKEALNMERD N\RYQP\LQNHAKFVKTIAREE TCINLMCQITS
11561	41929	A	11630	1	421	
11562	41930	A	11631	2	415	
11563	41931	A	11632	59	492	GHIGVRPSLHPVTSTTSGNVSP T LARAMASISELACVYLALILHD DEVIIMEVNINTLIKAASVNVE/ PFWPGLFGKALANVNIGSLICN VGAGGPALAAGAAPAGGPAPSI AAASAEKKMEAKKEESEESD DDMGFGLFTKPVL
11564	41932	A	11633	100	527	PPRTGQRQPLHSARRHGPSVSE LACIYSAISARTDEVTVTÆDK INALIKSSPL*MLSPFWPWCLQ RPLA\NVNIGSL\ICNVRGVPEPA ASQPGA\GPARKVLAPSTAAAP S*RRRKLEAKKRKNPKEVLNDE HGLLVFLN
11565	41933	A	11634	1	675	
11566	41934	A	11635	1	1032	

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11567	41935	A	11636	3	976	HEAKHQMADDAGGS/AGGPEG PGGPWDGKTPLLSGEVFGIVIR GRGSRP/RGRGRGR\GRGARGG KGPRIK/WIGMPVHQVGAALVK DH*RSKFPWKEIYLFSLP\IKGIK DS*FSFLAGPLSKDEGFEGLCPV QKQTRAGQAQQVSRPFVAIGG LQMAHVGSGLSAPKE\ VATG HPVGAIILAKLSIRPRAQKGIWG TKYWQSPNTVP\CKV\TGRCGF VVVRLIP\APRGSIVSAPVA\K KLLMMAGIDDCYT\SAPGCTAT LG\NFAKGHPLIAIFK\TYKLP*P PDLWK\ETVFTKVPYQ\EF\TDH LVKDPHPRESSVQRDLRLQLVAT
11568	41936	C	11637	279	322	
11569	41937	A	11638	1	107	
11570	41938	C	11639	69	134	
11571	41939	B	11640	223	950	
11572	41940	B	11641	1	684	
11573	41941	A	11642	1	564	EFGTRDNRVLLPLVNPTVFFDI AVD/GVYPLGRVSFELFADKVP KTAENFRALSTGEKGFG\YKGS\ CFHRLFP\GFMCCGW*L*SHHN GT\GGKSHLWGRNLKDENFIL KHTGPGILS\MANAG\PTNGSP VFLTSCTA\KTE\WLDGKH\AGL GKVKEGMNIVEAMER\FGSRN GKTSKKIISIA\DCGTTSN
11574	41942	A	11643	1	877	MSGALDVLQMKEEDVLKFHA AGTHLGGTNLDFQMEQYIYKR KSDGIYIINLKRTWEKFLAAR AVVAIENPADVSVISSGNTGQR AVLKFAAATGATPIAGHFTPGT FTNQIQAAFREPRLLVVTDPRA DHQPLTESSYVNLPTIALCNTDS PLRYVD/ICNNKGAHSGVGLMW WMLAREVLRMRGTISRHPWE VMPDLYFYRDPEEIEKEEQAAA EKA\VTKEEFQGEWTAPAPEFTA TQPEVADLSEGVQVPSVPIQQF PTDDWSTQPATENWSAAPT AQ ATEWVGATTDWS
11575	41943	A	11644	1	1674	

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11576	41944	A	11645	1	1121	MLEAVLEESPREEA AFSWVMK GNLAAGKTIQAQDRDAVGILSS RTGESMENLQKNLLPKQRRRT RETFTMSGALDVLQMKEEDVL KFLAA\GTHLGGTNLDFQMEQ YIYKRKSDGIYIINLKRTWEKLL \\LAA\RAIVA IENPADVSVISSRN TGPEGLCLKFAAA\ATGATPIAG\ RFTPG\TFTNQIQAAAFREATGF LVVTWTPGLD\HQLPTEASYV YLPTIA\LCNTDS\PLARYVDIAIP CNNKGAHSVGLMW\WMLARE VLRMRG\TISREHPWE\VM PDL YFYRDPEEIEKEEQAAA EKAVT KEEFQGEWTAPAPEFTATQPEV ADWSEGVQVPSVPIQQFPTED WSAQPATEDWSAAPT AQATE WVGATTDWS
11577	41945	A	11648	1	396	
11578	41946	A	11649	1	567	
11579	41947	A	11650	1	226	
11580	41948	A	11651	3	377	
11581	41949	A	11652	19	450	PDRRWSSLDTMNHTGQTFFSPV NSGQPPNYEMLKEEHEVAVLG APHNPAPPTSTVIHIRSETSVPD HVVWSLFNTLFMNPCCLGFI AF AYSVKSRDRKMVG DVTGAQA YASTAK\ALNIWALILGILMTIL LIVIPGLIFQAYG
11582	41950	A	11653	210	2206	
11583	41951	A	11654	450	644	SLRLWVTERTAVTNLPSSSRGV GDKPPVGSPHLFSLVVA FNPL QSTRNPASASQPQ\PCSAEQPAR RG* AEPALRTVLPIHAEMWLPR LHEFEEHRLVHRCFTLTFVDET DHCAVLPRGAGSGQGGGFERIL SQSPGSLWESC*PGLWLNILSNP PPCPLPAPLGRTAQ
11584	41952	A	11655	66	157	RGTWSIIA*KSQGISWDRFEEVT LCREPFT
11585	41953	A	11656	1	2538	
11586	41954	B	11657	68	1602	
11587	41955	B	11658	1	1464	
11588	41956	A	11659	587	1081	ILSWLTLWSILRLYIVTLTGKIC SLTSEASEATSPPRGTNNSRVA LAVVTLVWRVCSFIFDSKAFIL AFAFFFSHWFSILPFP PQHGATL WYFWGDFECSRGPRIHTDDR ARLVPMTERGGPPQGGEPART RSPRQGGRGGM EGGE*YPCPPH LGGQERKPG

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11589	41957	A	11660	180	583	YTEVLKGPDGAENHGTRTT** MHKPH*PIRSTGRKADKQLQQS LR\NKINVQKSQAFLYTNNRQT ESQIMSELPFTIASKRIKYLGIQL TMDVKDLFKENYKPLLKEIRG YKQMGEHSMLMGRKNQYSEN GHTAQ
11590	41958	A	11661	82	159	
11591	41959	A	11662	2	1008	NAAPLQQRNKAGCR/YDLDEL REEGFRRSNFFKLKAEVRTQCK ETKNLEKTLDKWLTRKTSVEK SLNDLMELKTMVQGLRDKCTN FSNGFDQLEERVSVIEEQMNEM KQEKKYREKKDRSMTQKVNK DIQELDSALHQEELIDIYRTVHP KSTEYTFFSAPHRITYFKIDHIVG SKALLSKCKRTEIITNCLSDHSA IKLELRIKKLTQNRSTTWKLNN LLLNDYWVHNEMKAEIKMFFE TNENKDDTTYENLWDTFKAVCR GKFRALNVHKRKQERSKIDTLI SQLKELERQELTHSKASRMQEI TKIRAEQKEKETEKNIQKNQRI QELFLLKDQQN
11592	41960	B	11663	1	1529	
11593	41961	B	11664	111	1350	
11594	41962	C	11665	1	2127	
11595	41963	B	11666	1	1350	
11596	41964	A	11667	1	1506	

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11597	41965	A	11668	1	1855	MIIIVPLYSSLGDRVKSCCKRE RERERRKKERKKERKKERKKE RKKASSKEREEGRKERRKKL RKKEEKERKKRKKRRREGKRE RKKEKERKEGKKEERKNIPGKR RESTDPLKEMDHRCLLPEMLK GTWWTTTPARASGPAVPLLCEF RQWTVDTTSVVPETHMPGQM TQIPAPDSHNMDEAGGHYPK QTNRPENQILHVFTDKWELNT EYKDPKKRTTDTLAYLRVEAT LAADWMVPTQIEGRSSFVLATL AADWMVPTQIEGRSSFVLATL AADWMVPTQIEGRSSFVLATL AADWMVPTQIEGRGRMTPHM AGYSSETKLPEERSGSSICGSPIS AVLQPPLLIPRQTGSGVDLQQT PTDLQLRVLMERSSSPATEQSW MENDFDEMDEGFRRSNYSEL KEEVQTYCKEVCGRGFKALNA HKRKQETSKIDTLTSQLKELEK QEETHSKASRRQEITKIRAELEK IETQKTLQKINESRSWFFEKINK IHRPLARLIKKKTEKNQINAIKN DKWDITNNLTEIQATIREYYKH LYANKLENLEEMDKFLDTYTL PRL*N/CRQSLIAYQKIKVQDQ MDSQSNSTRGTRRSWYHSF
11598	41966	A	11669	2678	2897	PDGAKKHGKRTTRDERTSFSSEF NQLEERVSVIENQMNMKREE KFREKRVKRNEQSLQEIWDM* KDQMRSTS
11599	41967	A	11670	843	2004	NNQCREVLKGVDAESQGSRT REERRSLRSRCDQLEERVSVID QNMNMKREGKFREKRIKRNEQ SLQEIWVYVVRPNLRLIGVPES DGNGTKLENTLQDIIQENFPN LTRQANIQIEIQRTPQRYSSRR ATPRHIVVRFTKVEMKEKMLR AAREKGRVTHKGKPIRLTADLS AGTLQARREWGPIFNILKEKNF PPRISYPAKLSFISEGEIKYFTDK QMLTIVHLKTLDIYMYNIRRPK GGEKKADQEVNSEPRNNIVLET KGDRGPQAPASPGGPPRRVRR SASGSRAGITFHPVHYLTRPFA HRFHYQSHGYGVGSVQSAELR HKTNSAARAALRDGGVDCRGR ERGSACQKRSDDDEAGGLVLS LPRVMSGSWEVRR
11600	41968	B	11671	1	3221	

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11601	41969	A	11672	82	160	
11602	41970	A	11673	1	551	AAAMADSGTAGGAALAAPAP GPGSGGPGPRVYFQSPPGAAGE GPGGADDEGPVRRQGVTVS YDRKELRKRL\NL\EDWIL*QLN GAFYDCQ\EEEEIPELEIDVDELL D\MESD\DARAA\RVKELLVDC YKPTEAFISGLLDKIRGMQKLS TPPEEVRVPDPGRTVAPTGQSL PPDLVATAITGGT
11603	41971	A	11674	362	650	
11604	41972	A	11675	1	651	
11605	41973	A	11676	1	3101	
11606	41974	B	11677	1	2838	
11607	41975	A	11678	1326	1980	TSEASRQSERVDSAALSALLS RSSKCRPWGTARVARAGGCLT PLLSRRFLETRPFTGPWDPGLG VTCWCCPPKRRLKSTPRPKFSV CVLGDQQHCDEAKAVDATFEV CLGDQVLSNANGFLSLSAKKY DAFLASESLIKQIPRILGPGLNK AGKFPSLLREEGQAICYSSSTNLT *SSLPSSQVLCLAVAVGHVKMT DDELVYNIHLAVNFLVSLLK
11608	41976	A	11679	11	720	EAMSSKVSRDTLYEAVREVLH GTQRKRRKFL\ETVELQISLKNY DPQ\KDKRFSGT\VRLKSHSPAL SFSVCVLGD\Q\HCDEAKA\V DIPPHGPSEAAEKTSTKNKKLV QKSWPKKV*MPFLA\SESSDQA RFPRIPRAPGLNKAGK\FP\SLLT HNGKHGGPKVDEVKVPQSRFQ MKKVLCLAVAVGHVKMTD\DE LVFNIHLA\VNFL\VSLLK\KNW QKCSGALYYQEAPMGQSPKRL
11609	41977	A	11680	34	507	
11610	41978	A	11681	407	806	LRVGMLQRSKANGPDDDHLLG ASCTCGPSTGSPSPRLPSLPQRP QKGLLHQ/RATRMKPGNIAKGL WKRLSKGTVMKLWLLTAVPRL SGLLVCPLVHQLLLAFKFLKRF PIFCLWFRAANRHARFSILFKLS RP
11611	41979	A	11682	1	1551	

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11612	41980	A	11683	1	751	MAGYSSETKLPEERSDSSIRGSR KSTVLQTLILLIPRQTGIKKLTQN RSTTWKLNLLNDYWVHNE MKAIEKMFFETNENKDTTYQN LWD/YIQSSV*REIYSTKCPQEK AGKIQMDTLTSQLKELEKQEQ THSKASRRQEITKIRAEPKEIQT QKTLQKINESRSLFFKRINKIDR PLARLIKKKREKNQIDAINEK GISPPIPQNYKLPSENTTNTSMQ IN*KI*KKWINSWTHTPSQE*TR KKLNL
11613	41981	A	11684	49	551	VRATYFHHAPANCTEFVPRQL VSRAENLPQATSLPTEKASRAF RVLLIPRQTRSGVDLQQTPTDL QLRVLIVRRKTNKQKGHPHQN PICTSPRRSNFFELKEEVRTHG KDAKNLEKRLDKWLTRISSVE KSLNDLMELRTMA*ELCDECTS FSS*FNQLEERSVSI
11614	41982	A	11685	1	1566	MNSLLTGQIPESQQIHRDSSAAT WWKKIYRQKMGNIEKSEVRG GLTPHTAGYSSETKLPEKRSGS SICGSPISAVLQPPLLIPRQTGSG VDLQQTPTDLKLRVLTVRRKS NKQKGHPHQKPICTSPLSKTKD RSTRQKVNKDIQDLNSALHQA DLIDIYRTLHPKSTEYTFFSAPH HTCSKIDHIVGSKALL/EQM*KN RNYQKLSLRPQCQNQ\LELRIKKL TQNHSTTWKLNLLNDYWM QKRPLKIQQCFLKTLNKLKID GTYLKIIIRAIYDKPTANIILNGQ KLEAFLKGTGRQGCPLSPLL NVVLEVLARAIRQEKEIKGIQL GKEEVKLSLFADDIMIVYLENPI VSAQNLPKLISNFSKVSGYKIN VQKSQTFLYTNNRQTESQIMSE LPFTIASKRIKYLGIQLTRDVKD LFKENYKPLLKEIKEDTNKWK NIPCSWVGRINIVKMAILPKVIY RFNAIPIKLPMTFFTELEKTTLK FIWNQKRACIAKSILSQKNKAG GITLPEFRLYTRLQ
11615	41983	A	11686	1	4962	
11616	41984	B	11687	101	3772	
11617	41985	B	11688	1	1047	
11618	41986	A	11689	21	287	

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11619	41987	A	11690	131	723	LLEGKLTNRKDIHTKNPSVRH/ RSSKTKERVSAEDEINEMKRE EKFREKRVKRNEQSLQEIWLYL KRPNLRLIGVPESDGENGTKE NTLQDIIQENFPNLRQANIQIQ EIQRMPQRYSLRRATPRHIIVR TKVEMKEKMLRAAREKGRVT HKGKPIRLT/ADLSAETLQARRE WGPIFNILKEKNFQPRISYPAKL
11620	41988	A	11691	1	1257	
11621	41989	A	11692	1	759	
11622	41990	B	11693	107	511	
11623	41991	A	11694	170	726	LLEGKLTNRKDIHTETPSVCHH HQRPKDIIQENFPNLRQANIQIQ QEIQRTTPQRYSSRRATPRHIIVR FTK/VEMKEKMLRAAREKGRV THKVKPIRLTADLLAETLQARR EWGLIFNILKEKNFQPRISYPAK LSFISEGEIKYFTDKQMLRDFVT TRPALKELLKETLNVERNRYQ PLQKHAKL
11624	41992	A	11695	1	569	MAGYSSETKLPEERSGSNICCSP ISAVLQPPLLIPRQTGSGVDLW QTPTDLQLRVLTVRRKINKQKG HPHQNPICSTPSSKTKGQIRAE KEIETQKALQKINESRNWVFEK INKIDRPPARLIKKKREKNQIDA IKNDRGDITIDPTEIQTIREYYK HLYANKLENLEERDKFLNTYTL PRLNQEEVESLNRPIGTSEIEAI NSLPTKKSPGPDGFTDAFYQRY KEDLVPFLLKLFQSIEKDRILSN SFYEASIFLIPKLGRDTTKKEN* QTERTSTPKPHLYITIEDQRPD QSRTEGNRDTKSPSKNQ*IQEL/ WFLKRSTKLIATSKTNKEEKRE ESNRCNKK**RGYHHRSHRNT NYHQRIL*TPLCK*TRKSGRKG* IPQHIHSPKTKPGRS
11625	41993	A	11696	3	1039	
11626	41994	C	11697	1	1251	
11627	41995	A	11698	1	807	

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11628	41996	A	11699	1	713	MNSLLTGQIPESQQIHRDSSAAT WWKKIYRQKMGNIEKSEVRG GLTPHTAGYSSETKLPEKRS SICGSPISAVLQPPLLIPRQTGSG VDLQQTPTDLKLRVLTVRRKS NKQKGHPHQKPICTSPLSKTKD RSTRQKVNKDIQDLNSALHQA DLIDIYRTLHPKSTEYTFFSAPH HTCSKIDHIVGSKALL/KQM*K NRNYQKLSLRPQCNTQRTQD*E THSKPLNYMETEQPAPE
11629	41997	A	11700	1	1768	MNLSRHLNEVKGELLWSLEWR DPDGGSSIRMEVGLGGWTQRLE EEKKGNVCSHGNLEKDFPYIPH LFGGLQKKMDLKG VFKSCFKI YCSSKHLLKTGFISEAVLCYGE GGEGDTVLTMKERWPHECIVLI QCNKGRLTPHTARYSSETKLPE ERSGSSICGSPISAVLQPPLLIPR QTGSGVDLQQTPTNLQLRVLT VRRKTNKQKGHPHQKPICMSPS SKTKDFKPTKIKRDKEGHYIMV KGSIQQEELTILNIYAPNTEAPR FIKQVLSDLQRDLDSHIIIMGDF NTPISTLDRSMRQKVNKDIQEL KSALQQADLIDIYRTLHPKSTE YTFFSAPHHTYSKIDHIVGSKAL LSKCKRMEIITNCLSDHSAIKLE LRIKKLTQNRSTTWKLN NVLLN DYWVHNKMKAEIKMFFETNG NKDDTYQNLWD/YIQRSV*REI YSTKCPQEKAGRI*N*HPNIQL KELEKQEQTSHKVSRRQEITKIR AELKEIETQKTLQKINESRSWFF EKFNKIDRRLARLIKKKREKNQ IDAIKNDK\GISPLIPQKYKLPSE NTINTSTQIN*KI*KKWINSSTHT
11630	41998	A	11701	535	666	KGRNIQLNGLVIGTSLN*LKCL KMFFT MPLGYINGGISSDFFLH
11631	41999	A	11702	20	262	
11632	42000	B	11703	1	1254	
11633	42001	A	11704	1	1032	
11634	42002	A	11705	481	1491	
11635	42003	A	11706	2	717	

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11636	42004	A	11707	348	1976	SRVRPVVHLRRAPMVCQGHTT PPVCGSLAGPGDCVHYSVPAG YSSETKLPEERSGSNICCSPISAV LQPQLLIPRRTGSGVDLQQTPT DLQLRVLTVRRKTNKQKGHPH QKPICMSPSSKTKGSNSHITILT NVNGLNAPIKRHRLANWIKSQ DPSVCCIQETHLTCRDTHRIKIK GWREIYQANGKQKKAGVAILV SDKTDFKPTKIKRDKEGHYMM VKGSIQQEELTTLNIYAPNTGAP RFIKQVLRDLQRDLDSHTLIMG DFNTPLSTLDRSTRQKVNKDIQ DLNSALHQVDLIDIYRTLHPKS TEYTFFSALHHIYSKIDHIVGSK ALLSKYKTTEIITNCLSDHSAIK LELRIKLTQNRSTTWKLNLL LNDYWVHNKMKAEINTLFETN ENKDDTTYQNLWD/YIQSSV*REI HSTKCPQEKAGKI*N*HPNIQL KELEKQEQTHSKASRRQEITKIR AKLKEIETQKILQKINESRSWFF EKINKIDRPLARPIKKKREKNQI DAIKNÆKGISPLIPQYKLPSEN TINTSMQIN*KI*KKWINSSTHT PSQD*TRKKLNL*INTSMQIN
11637	42005	A	11708	1124	1717	LLEGKLTNRKDIHTKNPSVRHH HQRPKVDKTTKMGRKQSRKTG NSKNQSASPPPKERSSSPATEQN WTENDFDELREEGFRRSNYSEL KEEVRTNAKEVKNFEEKLDEW ITRITNAEKSLKDLMEKTTAR ELRDECTSPSSQCNQLEERISAM EDKMNEMKREEKFREKRIKRK EQSLQEIWVYVKRPNLCLIGVP
11638	42006	A	11709	1	3549	
11639	42007	B	11710	209	403	
11640	42008	A	11711	3	248	
11641	42009	A	11712	61	594	IQPLVSVLDEKPSNGVLVHMK LLIKTFLDGIFDDLMEENVLNT DEIHLIGKCLKFVVSNAENLVD DITETAQTAGKIFREHLWNSKK QLSSVHGSEHEDKALTCHWVG HPGFPEKLKERKKFCGIMVVGL FGFTTDSGKAGADIHGRFLQGN FCNDAVTKAHVEKDFIAFKSST

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11642	42010	A	11713	1	430	FSAVREDGGCYLWQIYPIKERM DRJRLVLIICNKEFDHLPPRNGA DFAIMEMKKLLEDLGYSVDVE ENLTAR/HNVSQGETGTGKGLPIF ITQLIACFQRYSWRCHLAEVFW KVQQAFESPEATVQMPTIERVS MTRYFYLFPGN
11643	42011	A	11714	3	1195	
11644	42012	A	11715	35	1288	
11645	42013	A	11716	1	1641	
11646	42014	A	11717	1	2933	MVCSAAPLLLLATTPLLGSPV AQASQPLWPMAGQTMWAQT STLTLTEELGQSQAGGESGSG QLLDQENGAGESALVSYYVHL DFPDKTWPPELSRTLTPAASA SSSPRPLLTLRLTTECNVNHK GNFYCACLSGYQWNTSICLHYP PCQSLHNHQPCGCLVFSHPEPG YCQLLPPVPGILNLNSQLQMPG DTLSLTLHLSQEATNLSWFLRH PGSPSPILLQPGTQVSVTSSHGQ AALSVSNSMSHHWAGE
11647	42015	A	11718	1	357	
11648	42016	A	11719	73	1494	KSSHCIKMGPQIFHKTSEFLPA TSCPSCPDQNEEDVSQTQYKEC CGGGWCSSHIFAVWHFI*RPDA T*FG*SSAYGFVASDQCP*GSS* LYHLWYSYSGSENKQCG*RAA LGAGFSDKTPAHTVTMACISAN QAMTTGVGLIASGQCDVIVAG GVELMSDVPIRHSRKMRLML DLNKAKSMGQRLSLISKFRFNF LAPELPAVSEFSTSETMGHSAD RLAAAFVSRLEQDEYALRSHS LAKKAQDEGLLSDVVPFKVPG KDTVTKDNGIRPSSLEQMAKLLK PAFIKPYGTVTAANSSS/LLTDG ASAMLIMAEKALAMGYKPKA YL/RRDFMYVSQDPKD\HLLLG PTYATPKVLEKAGL\TMNDIDA FEFHEAFSG\QILANFKAMDSD WFAE\NYMG*KKPRFGLPPLWR RFNNWG\GSLSLGHPFGATGCR LVMT\AANRLREEGRASMA*V AACAAGGQGH\MI\VEAYPK
11649	42017	A	11720	1	642	

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11650	42018	A	11721	17	960	KSGARSLQPQFLRAPEDGGPLS LPNAAMARGPKKHL\RVAA\P KHWMLDKLTGGCA\PRHSPVP HKL\RECLPLIIFLRNRLKYALT GDEVKKICMQRFIK\NDGKV\RT *YNPTPAGFHGMSSAFDKTGEE NFPS*SIDTKGSAFA\VHPYLTTL EEGQSTSLVPKVKKRSFVGHKK GIPSSWVTS*WPATIR*PRSPSSK VN*YHFRLDLETWQRLD\FIKF \DTGN\LCMGDWGGA\NLGRN WVLITN\RRERHPGSFDPWFHV\K DANG\SFATRLSNIFVIGKGNK PWISLPRGKGIRLTIAEERDKRL AAKQSSG
11651	42019	A	11722	1	460	
11652	42020	A	11723	1	243	
11653	42021	A	11724	94	311	
11654	42022	A	11725	400	792	
11655	42023	B	11726	473	596	
11656	42024	A	11727	1	1707	
11657	42025	A	11728	3	484	
11658	42026	A	11729	122	253	
11659	42027	A	11730	1	803	RGGRGGAGAAGAELAGPLPSP APFESPGFTPPGPWGSICPAFA HALHSGTVPARSGRTMARGAA LALLFGLLGVLVAAPDGGFDL SDALPDNENKKPTAIPKKPSAG DDFDLGDAVVDGENDDP\PPN PPKMPNPNPNHPSSSGSFS\DA DLADGVSGGEGKGGSDGGGSH RKEGEEVADAPGVIPGIVGAVV VAVAGAISSFIA\YQKK\KLCFK\ EN\AEQGEVDMES\HRNAQRQK PAVQRTLLEKIEDCPEKQPQAF GSRVRTAA
11660	42028	A	11731	335	476	
11661	42029	A	11732	2	169	
11662	42030	A	11733	49	289	VPVVQVPAAPGPLPGPATGSCS ASAAPRPDP\PPGHPEGHGHHS P/GVLGFVGVGIFS\YCQE\QPQKCV TIKIFESPP\IRRL
11663	42031	A	11734	22	412	ARVGFLLGQEGKAGARASGPA DDVC\GKGASAIRSHMRASRSP PSPRRCHHHHEATGTASGSAAG GPGAGCVWLCRLALTPSAQDG RNSTFQTYKKEVCLPRHSHPCW MHAAGTTAGGS\AVMSACCPSS SR

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11664	42032	A	11735	250	571	KGPRVTQGATVPKRQAPSAGL D/GSPISQFPWSY/DV*AIAILCG QGV T*PLPVSPGGPAPPESVAL AEWVCSGSRRPLSNSGIARRPIG VIQPLDFLQNWPKPVLRC
11665	42033	B	11736	1	1593	
11666	42034	A	11737	2	1175	
11667	42035	B	11738	206	354	
11668	42036	B	11739	850	1461	
11669	42037	A	11740	2	663	VLLDERSAALDGA KR DGT LAL AAGALCREARAAQVFFLKGGY EAFSASCPELCSKQ/INVSANCP NHFEGHYQYKSILCGMTTHKA DISSWFNEAIDFIDSIKNAGGRV FVHCQAGISR SATICLAYLMRT NRVKLDEAFEFVKQRRSIISPNF SFMGQLLQLESQVLAPHCSAEA GSPAMAVLDRGTSTTTVFNF PV SIPDHSTNSALS YLQSLITTSSH C
11670	42038	A	11741	1	474	
11671	42039	A	11742	3	1354	WAVCATRVGGAVGGTAKKPR SPEPRVTLLSQSKSGFWFGAER PGGLAFPRKAPPCWPREQTKS TAGPITLGALRPAMVMEVGT L DAGGLRALLGERAAQCLLLDC RSFFAFNAGHIAGSVNVRFSTIV RRRAKGAMGLEHIVPNAELRG RLLAGAYHAVVLLDERSAALD GAKRDGT LALAAGALCREARA AQVFFLKGGYEAFSASCPELCS KQSTPMGLSLPLSTSV PDSAES GCSSCSTPLYDQGGPVEILPFLY LGSAYHASRKDMLDALGITALI NVSANCPNHFEGHYQYKSIPVE DNHKADISSWFNEAIDFIDSIKN AGGRVFVHCQAGISR SATICLA YLMRTNRVKLDEAFEFVKQRR SIISPNFSFMGQLLQF*VPQD/VL VPHCSAEGWEAPDMAVLDRG TSTTTVFNF PVFIPVHSTNSAL SLPFRGPINGPFPAG
11672	42040	A	11743	196	1260	
11673	42041	A	11744	5	447	
11674	42042	A	11745	1	328	
11675	42043	A	11746	3	364	
11676	42044	A	11747	1	816	
11677	42045	A	11748	1	1377	

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11678	42046	A	11749	1	989	EGRTVLGGGLGSAAAMASRLL LNNGAKMPILGLGTWKSPPGQ VTEAVKVAIDVGYRHIDCAHV YQNEVEVGVAIQEKLREQVVK REELFIVSKLWCTYHEKGLVKG ACQKTLSDLKLDYLDLYLIHWP TGFKPGKEFFPLDESGNVVPSD TNILDTWAAMEELVDEGLVKA IGISNFNHLQVEMILNKPGLKY KPAVNQIECHPYLTQEKLQYC QSKGIVVTAYSPLGSPDRPWAK PEDPSLLEDPRIKAI AAKHNK\T TAQVLIRFPMQRNLVVIPKSVT PERIAENFKVDFELSSQD\MTT LLSYNRNWRVCALLSCTSHKD
11679	42047	A	11750	1	855	
11680	42048	A	11751	2	367	
11681	42049	A	11752	2	376	QTYSLRRATPRHIIVGFTKVEM KEKVLRAA\NKPIRLTVDLAET LQARKEGGPIFNILKEKNFQPRI SYPAKLSFISEGEIKSFTDKQML KDFVTTRPALQELLKEALNME RNNQYQPLQKHAKW
11682	42050	A	11753	1	1536	
11683	42051	A	11754	1	2541	
11684	42052	A	11755	1	1788	
11685	42053	B	11756	1	1014	
11686	42054	A	11757	1	777	
11687	42055	A	11758	1	1029	
11688	42056	A	11759	1	2052	
11689	42057	A	11760	1	1392	
11690	42058	A	11761	1	993	
11691	42059	A	11762	1	1240	PTDPAAEGPCLLDAKTNKRKGP STPILPFCSPFIRGPKVDSTHGA WGQKQHR*TGIF*RSRAPSP\A KEHGSSPATEQSWMENDFDEL REEGFRRI\NYSSELKEEARTHGK EVINLEKK\LDEWITRITNAEKC LK\ELMELE\TKA\RELREECRS\ LRSRRNQLEERVSAMEDEMNE MK\QEEKFREKKNKKK*TKAL KELWDYV KRPNLRLIGIPESDE ENGTKLENTLQDIIQENFPNIAR QAN\VQIRGN YRER PQRLPPRG RATPRTH/IIVRFTKVGNGREKM FKGQPGGKGRVTLKGK PITLTT ADLSAETSTSQKTEWGPIFNILE GKEFSNPEISYLSQT*AFISGREE LNSFYRTSQMLRDFCHHQASRL P*KSTRPALKELLKEEALKHGK GNNPVPSHLQKFIA

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11692	42060	A	11763	1	1917	
11693	42061	A	11764	268	307	AHHTHLCLLTESPPEGR*VCWG CGLGWGVVLSLVCP
11694	42062	A	11765	2	349	
11695	42063	B	11766	1	1734	
11696	42064	A	11767	1	603	
11697	42065	A	11768	1	420	
11698	42066	A	11769	115	796	EWSSVRRSLVEKRALRRPHPQC LCFRMKTILSNQTVDPENVDI TLKGRTVIVKGP/REGTLRRDFQ SPSMENFTFLERKKKRLRVDK WWGNRKE\LATVRTICSHVQN MIKGVTLGFRYKMRSV\YAHFP HQPLLSRGNGLSV\EI\RNFFG*K NISARVRMRP\GVA\CSV\SQAQ KGEF/ISLEGND\ELVSNSAALI QQATTVKNKDIRKFLDGIYVFE KGTVQQADE
11699	42067	A	11770	1	295	ASTAGVSYYVAQAGLKLGLS LSKCRDYRCEPPCPE*MSLYKV MAMARKAMSL\YIYFFLDEFM YFAGTWMKLETILSKLSQGGK TKHRMFSLVGGN
11700	42068	A	11771	3	342	
11701	42069	A	11772	1	182	
11702	42070	A	11773	1	439	
11703	42071	A	11774	1	325	
11704	42072	A	11775	2	91	
11705	42073	A	11776	167	861	IWAILADPRMAQGKLRMEIGTK LRCLIWTVHKGVHWVTFWWV ERSQTGNLEVRRLWLGLLTHL HSGVNSLFTRARIWNPSMIDW/I KKMWHIYTMEYYAAIKKNQF MSFAGTWMKLSAPAAPTIVLFL ASFTNHYNLRASLLVESCLAPS YTSVEPRFSIPQSLTPARGSSDG HTCFSHQSHDSSLICADSTHFW LSAHIWIQANAPPVPRAPSELSL KTRLKCSPQLNLRPP
11706	42074	A	11777	1	660	
11707	42075	B	11778	1	2633	
11708	42076	A	11779	1	2985	
11709	42077	A	11780	398	605	
11710	42078	A	11781	204	585	VTMCDRKAVIKNADMSEEMH QDSVECATQALEKYNIEKDIAA HIKKEFDKKYNPTWHCIVGEG TFGSLC*HIETKHFLTSYLGAK WAISFCFKFWFKRHGTVATHPV IPFQKQGIAALNFQLPED
11711	42079	A	11782	1	810	
11712	42080	A	11783	188	534	

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11713	42081	A	11784	1	1188	
11714	42082	A	11785	1	1137	
11715	42083	A	11786	19	428	ERRNSGNMALRVERSVRAVLC SLHVVLAPAAPCLSRPWQLGM GAVWYCNLPEVGTKLNKQDE FGALERVKAASELYSPLSGEVT EINEALAENPGLVNKSRVEDG WLIKMTLSNPS*LDELMSEEAY EKYIKSIEE
11716	42084	A	11787	66	631	RRDPRTPANMALRVVRSVRAL LCTRLAVPLPA\APCPPRWQLG VGAVRTLRTGP\ALLSVRKFT KHEWVTENGIGTVG\SNFAQ\ EALGDVVYCSLPEVGTKI*TKP SWSLVLL\SVKAASELYSPLSG \EVTEIN\EAL\AENPGTCKTNFC Y\EDGWLIKMTLSNPSE\DELM SEEAYEKYIKSIEE
11717	42085	B	11788	46	743	
11718	42086	A	11789	209	401	MKPPVRSLSPPRSIIMGSSATEI EELNTTFKYLTGEQTEKMWQ RLKGMEIKKLN*G
11719	42087	A	11790	135	313	
11720	42088	A	11791	1	624	
11721	42089	C	11792	81	299	
11722	42090	A	11793	5	166	SPVMMSSFFLFVCLLT*RSPPSS SSSSSSSSSSSSSSSSSPSSSFS GSVV
11723	42091	A	11794	3	173	
11724	42092	A	11795	169	291	SCNSSILSFLSLSLVADPQIATYR /S*CSRLGHKGTLPGS
11725	42093	C	11796	1	429	
11726	42094	A	11797	1	279	
11727	42095	A	11798	3	376	
11728	42096	B	11799	1	736	
11729	42097	A	11800	753	2455	
11730	42098	A	11801	1	312	
11731	42099	A	11802	48	397	
11732	42100	A	11803	51	286	
11733	42101	A	11804	1	420	
11734	42102	A	11805	11	537	PDRPTRPCRQCARSFRRKLKAA VGVEGPSLSSGELGTRVPAAPS PTTRPRAMAFCLPSFAC\YSALI LHDDE\VT\VTEDK\NALIKSSR V*MLSPFWPGLFAKAL\ANVN\ MGS LICNVGAGGPCCPASWVL QPAGRSLPPLLAASSLREKKV\ EAKKEGFRGSFD*LTWGFGSF
11735	42103	A	11806	114	399	

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11736	42104	A	11807	3	599	AIRRLRJSAREEERENQPRLLPL SLGAGGGVGGFVQQWPRFKAR DLRGKKKEEL\LKQL\DDLKVE LVPSARRQKRQGAAS\KLSKI R\VVVRKSIAPCSPRLFTQTQKEN LRKFYKGKKYKPLADLRPKKTR AMRRRLNKHEENL\RTKKQQR KERLYPLRKYAVKALGGALS IKH KENLTKKKQQRKERLYPLRKYAVKA
11737	42105	A	11808	226	370	AGSP*FPQFSEA*RRGALGSGA DQDLSHPRITITETLTSCRSLQTSS PR
11738	42106	A	11809	3	7964	RSGSGSKFEPRSRASVLAPSAL GPPNTSPRQLVAHCALPATRMP VTEKDLAEDAPWKKIQNTFT RWCNEHLKCVNKRIGNLQTDL SDGLRLIALLEVLSQKRMYRKY HQRPTFRQMQLENVSALEFL DRESIKLVSIDSKAIVDGNLKL LGLVWTLILHYSISMPVWEDEG DDDAKKQTPKQRLLGWIQNKI PYLPITNFNQNWQDGKALGAL VDSCAPGLCPDWESWDPQKPV DNAREAMQQADDWLGV
11739	42107	A	11810	1	636	
11740	42108	A	11811	3	261	QKKPLKQPKKQA*EMDEV RAG AEALAGAGALGDRPELNTLCLS P EDKAFKQKQKEEQKKLEELK AKA\AGKGPLATGGIKKSGKK
11741	42109	A	11812	1	621	
11742	42110	A	11813	1	1024	
11743	42111	A	11814	174	332	SHCLANAPGDVKVRNDPESPRE L*HL*R*RINYTRWKRSI*EEWC QGH SWRG
11744	42112	A	11815	1	1323	
11745	42113	A	11816	1	2322	
11746	42114	A	11817	1	336	
11747	42115	A	11818	22	391	PPPPAAKTRRKVLATKVLGTV KWFNVRNGYGFINRNDTKEDV FVHQTAIKKNNPRK\YLRSVG\D GETVEFDV\VEGEKGAEAAVNT GPDGVPV/EKGSRYAA\DRRR\Y RRCY\YDR\RRGPPPEYW
11748	42116	A	11819	433	866	PPPPAIDAEEKVLATKVLGTV KWFNVRNGYGFINRNDTKEDV FVHQTAIKKNNPRKY\LRSGD GETVEFDVVEGEKGAEAAVNT GPDGVPVE\GSRYAADRRRYRR \GYYGKARWPPFANYAGGGRR RKGAQVEGFLPPLD

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11749	42117	A	11820	63	484	
11750	42118	A	11821	1	819	
11751	42119	A	11822	150	463	
11752	42120	A	11823	63	594	FAKLPNPKGKGGEATRYMFSR PF*ENHGVVPLGHNN*RF\YKK GDIVDIQGEWGTLFQKGNC KVVTHGQNLGVLPMVTPAML VGHLL*TNQF*GKVFSKRINVR IEPIK\HSKSR\DSFLK\RVKEND QKKKEAKEKGTWVQLKRQPA\ PPREAHFVRTNGKEPELLEPIPY
11753	42121	A	11824	2	1376	
11754	42122	C	11825	132	341	
11755	42123	A	11826	155	245	
11756	42124	A	11827	3	293	
11757	42125	A	11828	204	467	LRAPHVACSRCNQGPCMENCL NTDQHTQTQRQG*EEKSSSSK/ PISSLMEYYKRSQCSVKSKARS VF*LKLRAQAQLLQETKKPVFR L
11758	42126	A	11829	1	768	
11759	42127	A	11830	348	568	REISYKERIGM*MPPSVILNSYV KSMLETYPHPLLRGVVAPGPLK KGFLTESLLALPDPSFSGRMTSF KITPV
11760	42128	A	11831	1	840	
11761	42129	A	11832	2	216	
11762	42130	A	11833	1	726	
11763	42131	A	11834	3	3231	PGGWLRRALPGRERLQSPVHA VPPQHGTSHSRLLVTPGAGR DQDFSSPPLLLGETDHLHLDL PLSPLPTSDELFLPGICDPYVKL SLYVADENRELALVQTKTIKKT LNPKWNEEFYFRVNPNSHRLLF EVFDENRLTRDDFLGQVDVPLS HLPTEDPTMERPYTFKDFLLRP RSHKSRVKGFLRLKMA YMPKN GGQDEENS DQRDDMEHGWEV VDSNDSASQHQEELPPPPLPPG WEEKVDNLGRITYYVNHN
11764	42132	A	11835	1	624	
11765	42133	A	11836	2	361	
11766	42134	A	11837	3	432	NSRVDDFVAAQDAKGKKVAP APAVVKKQEAKKVVNPLFEKR PKNFGIGQ\QRL LARA EKKAAG KGDVPTKRPPVLRAGVNTVTT LVENKKAQLVVI AHDVDPIELV VFLPALCRKMGPYCIK GKAR LGRLVHRKTCTTVAFT
11767	42135	A	11838	1	684	

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11768	42136	A	11839	9	247	AVTSDEPKGKKAKAKKVAPAP AVVKNQEAKKVVDPLFEKRHK N\FGIGQDIQPKRASPRLCLEPR\ YIRLQRQRAILYKRLKGPFCDY PGFTRALDRQTV*SSLLKL\AHK YRP\ETKQEK\QRLFARAREEG VLAKGDVPNERDPPVLRARSL TPFHHPWVEKQEKQLVNVNWH TDV\DP\NELVVLLALPLCREKW GVP\YCNYRREKARLWDRLLVP QERPCTTCPFTQGELRKTGG FWLKLGWKLIRTQFTIDQILMR SRRH\WG\GNVLG\PKSVGS*SP KLEK\AKAKELAH*TG
11769	42137	A	11840	1	273	
11770	42138	A	11841	1	218	
11771	42139	A	11842	1	1522	
11772	42140	A	11843	136	441	
11773	42141	A	11844	24	274	SRQAWHEAASASARRRGTRSP ALSPARAPAGPIWTNARRSARA NSVSPAAAPPPRRPVSLSDPGE SCTRDPRAPDPCGPFRC
11774	42142	A	11845	194	365	
11775	42143	A	11846	1	782	LLVVGTTVVVYFPNGRFKEFM SRHVHLMCYRICVRALTAITY HDRENRPNGGICVANHTSPID VIILASDGYAMVGQVHGGLM GVIQRAMVKACPHVWFERSEV KDRHLVVK\RLTEHVQDKSKLP ILIFPEGTCINNTSVMFMFKGSF EIGATVYPVAIKYDPQFGDAFW NSSKYGMVTYLLRMMTSWAIV CSVWYLPID*ERQIEDAVQFA NRVKSAIARQGGGLVDLLWDGG LKREKVKDTFKEEQKLYSKM
11776	42144	A	11847	3	916	
11777	42145	A	11848	13	473	DPPTDSLSPDGGGSELEFYLAPE PFSMPSELLGAPPYSGLGVGDP YAPLMVLMCRVCLEDKPIKPLP CCKKAVCEECLKVYLSAQIQCP TCQFVWC*CAAGCAWKTSPSSPC LAARRPCARSASKST/SSAQIQC PTCQFVWCFKCHSPWHEGVNC KEYKKGDKLLRHWASEIEHGQ RNAQKCPKCKIHIQRTEGCDH MT
11778	42146	A	11849	92	1103	
11779	42147	A	11850	1	516	
11780	42148	A	11851	1	642	
11781	42149	B	11852	200	608	

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11782	42150	A	11853	1	1856	MEETGMCEGHGASPGMEASSG EREKRGTEASPGDREKRGTE ASSGEREKRRTEASSGDREKR GTGKASSGEREKRGTEASYG EREKRGGAAGGQESCAHCGG WLMPRAKPSTHRETNPRGTEA TAMAMDHVGQQADTTDSTDG SQWDPSEHSPNCGIREVGAGDP DTQQTGRHHCYYPACKETNEKT NTNRNSNTFIEQLLHAKQQRGN SGVPPFKPGHMRALTTNALS W AKLYPDPWCLRMGGTGNEVFE NEIKTGSCWIKQEQPRPQSP RSQVRPEADPGSPSTKMSAEN EYRPPSPPKLAAERDKPSPLRP RGVPWRRESRVAGRECALLR VAAEGARPPAGMSYDRAITVF SPDGHLFQVEYAQEAVKIRGST AVGVRGRDIVVLGVEKKSVAK LQDHRPVRKICTLHDNVCMA FAGL/TPADARIVIQTGPGVEFQ\ SHRA*TVEGPRVTVE\YITPLTF ASLKASVYTQSKWGARPFGIS GPHRGFSTFDGTP*LYQTDPSG TY\HAWKA\NSIGRGAKSSARS SWEK\NYTDKAIETDDL\TI\KL V IKALLEVVQSGGKNIE\LAVMR RDQSLK\NLNPEEIEKYVA\IEK EKEENEKKKQKKAS
11783	42151	A	11854	12	432	

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11784	42152	A	11855	1	1775	MSYPADDYSEEAAYDPYAYPS DYDMHTGDPKQDLAYERQYE QQTYQVIPEVIKNFIQYFHKTVS DLIDQKVYELQASRVSSDVIDQ KVYEIQDIYENSWTKLTERFFK NTPWPEAEAIAPQVGNDVFLI LYKELYRHIYAKVSGGPSLEQ RFESYYNYCNLFNYILNADGPA PLELPNQWLWDIIDEFIYQFQSF SQYRCKTAKKSEEEIDFLRSNP KIWNVHSLNVLHSLVDKSNIN RQLEVYTSGGDPESVAGEYGR HSLYKMLGYFSLVGLLRHLHSL GDYYQAIKVLENIENKKSmys RVPRVPRSPTYYYVGFAYLMM RRYQDAIRVFANILLYIQRTKS MFQRTTYKYEMINKQNEQMH ALLAIAL\TMYPMR\IDESIHLQL REKYG\DKMLRM\QKGDQPQVY EELFSYSCPKFL\SPVVPNYDNI HPN\YHKE\PFQ\QLK\VSDEV Q\QQAQLSTIRSFLKLLHPPCLV AKPGLASLDLTEQEFRIQLLVF KHKMKNLRVDSAVSQALDGEF QSASEVDFY\NDKDMI\HIADTK VARRYGDFIRQ\HKFEEELNPN P*RRMG\QRPWMIFTTHSGNLV
11785	42153	B	11856	1	537	
11786	42154	A	11857	98	334	WATERWKGRKNHEISWKCFFG KAIS*MRSSKQMKPNFPRCSSIT VLSVRGMVLFLTACPRFKMSS RTDFRFGNPQVT
11787	42155	A	11858	4	422	
11788	42156	B	11859	1	2567	
11789	42157	A	11860	2	364	
11790	42158	A	11861	1	501	
11791	42159	A	11862	1	402	
11792	42160	C	11863	30	673	
11793	42161	C	11864	195	1263	
11794	42162	A	11865	3	648	
11795	42163	A	11866	200	420	ILPSALRPPNPNWNVG/YVQTTQ LVSKPLSLPTGIPCSTTSNLIKPV ITKDARLHRVIVHGWGIGGTIPI AKIAIS

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11796	42164	A	11867	1	502	MQLPGRGHSFVCKANAGSTQA RQGASAGVAGCRGWLNYAAS EQIVLRVPHMRCEIPHKCVRRK SRIRPHSPFRLRNCWKGRSVRA FSLLRQLAKGGCAARRLSWVT PGFSQSRRCKTTASAKLACLQV RAQSEDISTVPIHYAYNMTRVG RMQMLGKYNPQSAKLVREAIL PTKATLDLSNQNNEDFSAFQLG LAQALHIKVHTMTREVMSEDEL TKLLEGNLKPAIDMMVEFNTT GSLPENAVDVLNTALGDRKSF VALMALMEYSRYLVAEDKSAF VTPLYVEADGVTNGPINAMML MTGGLFTPDWIRNIAKGGL*FQ YTFTFNRSRSQCFHIFQETSKK FFSMCF*SSLLTKHCHSSRDVW VFSTSFQHIRHTLIDGISNRTNQ LTCNTTSTRTIDGNSQRVLSNTT
11797	42165	C	11868	1	3831	
11798	42166	A	11869	1	5370	
11799	42167	A	11870	1	3999	
11800	42168	B	11871	1	12036	
11801	42169	B	11872	1	16395	
11802	42170	A	11873	1	19997	
11803	42171	A	11874	1	70	
11804	42172	A	11875	44	613	AGTHLRPFSPSLSAAMALRYPM AVGLNKGHKVTKNVSKPRHSR RR\GRL\TKHTKFVRDMIREVCG FAPYERRAMELLKVSKDKRAL KFIKKRVGTHIRAKRKREELSN VLAAMRKA AAKKDLGSPSPCL PEIKDKLDRSPGSPAVRGWVW VCRGPAVPCLVPALSHTLGSCC LVVNQKPWPAHPSRGR
11805	42173	A	11876	1	150	FRGRCCVQRYRGCTLASA/CLL VGAEAEAPSPVDPLERSRPYAVL RGQNLE
11806	42174	A	11877	447	725	
11807	42175	A	11878	2	206	RPVAYLLLQGWGRCCVQRYRG CTLASA/CLLVGAEAEAPSPVDPL ERSRPYAVLRGQNLDQTLH*ST HQA
11808	42176	A	11879	1	413	
11809	42177	A	11880	122	268	
11810	42178	A	11881	1	555	

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11811	42179	A	11882	221	419	LQTILOQYSNQNSMVLVPKQR YRPMEQNRALRNNAAYLQKSP *ADKQLQQ/ECQDTKSMCKNH KHSYTPITDKQRAKSRVNSHSQ LLQRE*NT*ESNLQGA*RTSSRR TTNHCSMK*KRIQTNGRTFHAH G
11812	42180	A	11883	1	2464	MDEFLNTYTLPRLNQEEVESLN RPITGSEIVAIINSLPRKKSPGPD GFTAEFYQRYKEELVPFLKLF QSIEKEGILPNSFYEASHILIPKPG RDTTIKENFRPISLMNIDAKILN KIILANRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSINVIQHINRT KDKNHMIISTDAEKAFDKIQQP FMLKTLKKFGIDGTYLKIRIKYL GIQLTRDVKDLFKENYKPLLNE IKEDTKKWKNPSCSWVGRINIM
11813	42181	A	11884	2104	2637	MFQRGHISQWWVVVGALTVFT SVLDTDPMRDNKRSGSEILPFC REHGTSFTYNHAHSPSCSPSCL FSGALFSPENNSGFLCMTLPAS FTAGNRLFSSAGQPWWIQQGF KAHAKARRLILLAFHHYCCRPF LAVELKPSPVSTPTFLFA*LLPP CSVPGAILHESFGEAITWLDAE
11814	42182	A	11885	69	417	QTHSQHYTEWGWKVESIPPENW NNTRMPIFTISIQHIIRSSSESQNT RERNQGHPNG*RGSTVAFC*R YDRIPRKP*RLIQKTPRTASAAD TQANRVWSGPPASSNRPAEGP DC
11815	42183	A	11886	376	597	ENKIPRNPTYKGCEGPLQGELO TAAQGNKRGHKHKMEKHSRLM DRKNQYPSAADTQANRVWSGP PANSNRPAEGPD*PGQNFQYH VE
11816	42184	A	11887	5	292	LTVSCPCSRMLFLTDDVLLPLM FIKKLGANVASPSSKKPLFVIRL VITTLPLACGTLPTSSVSRRTFF RTMLPQA\PEFAPPSTGTESHYY CCIW
11817	42185	A	11888	320	596	YPGKQGLEWTSSKLQQTCKRY RERHKDTP/TRRATPR/RHNCQV HQS*NEGKNVKGSRERSGYS QREAHQTNSRSLGRNSTSQKRV GASIQRS
11818	42186	A	11889	3	239	EASRGRIRQQHLPCNICCSAAS TGDTQANRVWSGPPANSNRPA AEGLDK*KEN*QTERSTPKPD LYITIHKDQSL

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11819	42187	A	11890	3	278	EASRGRIRQQHLPPFCNICCSAAS TGDTQANRVWVGPPANSNRPA AEGDC*KEN*QERTSTPKPD LYITIKDQRLIPGLFTSPWISARI
11820	42188	B	11891	394	1213	
11821	42189	A	11892	856	1217	VDRSRLQKVSNNKL VQAKGGC SNPLQGS*KLDNPKDANS/RQQ PERTWKWIFPQPHR*GAFGPRH C*ESHL YQFGLDLLNSAGSGIG KNEVQE QKRAEVGARA APEKE LPEALSWFLKVLW
11822	42190	B	11893	1	894	
11823	42191	B	11894	93	938	
11824	42192	A	11895	149	508	LLEGKLTNKKDIHIKTPSVRHH HQRPKPKISLS**ATSAKSQDTK SMCKNHKHSYTTITDKQRAINH E*TPIHNCFKESKIPRNPTYKRC *G/RSSRRTANHCSRK*KRTQTN GRTFHTHG
11825	42193	C	11896	1	1257	
11826	42194	A	11897	183	1065	YWRCNGFLS*YAEAAEEIVDCI TESLSILKTPPKKMNEEMLCQ EFGFRGPLASVKIMWPRTDEER ARERNCGFVAFMNRDAERAL KNLNATAFRPALSHFPSLPMDT TSQIPKH\PTVSSTNKLILIKTH FQAQSSLNQNIHPMDPSHGIQY SAFSPSTPNPSHPALP*PLAIQVH HAVCDGFHVGRMLNELQQYC DEWQRDKLEEILRGLTPRKNDI GDAMVFCLNNAEAAEEIVDCIT ESLSILKTPPKKMNEEMLCQE FGRFGPLASVKIMWPRTDEERA RERNCGFVAFMNRDAERALK NLNATAFRPALSHFPSLPMDTT SQIPKHSSHQFNKQAHSDHQD SLSGPVQSESKYP SHGSIPWDSI LSLLTLNTQPIPPSLALTHMEME SGLHFHCPFTASPPSAVPPPELE KTTLKFIWNQKRARIANSILSQ KNKAGGITLPDFKLYYKATVT KTAWTGSPTAIRQARTTRQEKE MKGIQIGKEEVKLSLFTDDVNL QVRENK
11827	42195	C	11898	138	644	

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11828	42196	A	11899	2	3088	ADKTPGGSQKASSKTRSSDVHS SGSSDAHMDASGPSDSMPRT RPKSPRKHNRYRNESARESLCDS PHQNSRPLENKLKAFSIGKM STAKRTLSKKEQEELKKKEDEK AAAEIYEEFLAAFEQSDGNKVK TFVRGGVVNAAKEEHETDEKR GKIYKPSSRFADQKNPPNQSSN ERPPSLVIETKKPPLKKGEKEK KKSNELEFKEELKQIQEERDER HKTKGRLSRFEPQSDSDGQRR SMDAPSRRNRSSG
11829	42197	C	11900	413	823	
11830	42198	A	11901	263	1246	NPGKQGLEWTSSQTPADLQLR VLTVRRNTNKQKGHPHQNPICT SPSSKTKEVENLEKRLDKWLTR LTNVEKSLNDLMELKTMAREL HDEGTSFSSQFDQLEERVPVME DQMNEKQEEKFREKRMKRN EQSLQEIRDYVKRPNRLIGVPE SDGEKEPSWKTLCRILSRRTSP A*QGRPTFKFRKYRECHKDTPQ GEQLQDT*LSDSPKLK*RKKY* GQPERKKYRLPSANTKTSRLK* TRKSRRNG*ITGHIHPPKTKPGR S*IPE*TNRL*N*GNN**PANQK KSRTTRRIHSQILPEAQRGAGTIP SETIPINGKRGNNPPKLIL
11831	42199	B	11902	67	2584	
11832	42200	A	11903	1	3793	MSDAEDERFLQFQLRYRVYLT GDCRTVGAGQWVQRTREPKQ GEALPHPGSARGWGVFPFRDD GWHLENRVPTLILRFSSHLSK QHTRRPYSAPGSEGPTPTPCSL LAQQSEIKLQDGSEAGGGPLLI PRQTGSGVDLRQTPDMQLRV LTVRRKTNKQKGQPHQNPICTS PSSKTKAPHHTYSKTDHIVGSK ALLSKCKRSEITNCLSDHSAIK LELRIKKRIQNRSTTWKLNLL LNDYCVHNEIKAEI
11833	42201	A	11904	1	441	

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11834	42202	A	11905	312	3705	FIMPAVASVPKELYLSSSLKDL NKKTEVKPEKISTKSYVHSALK IFKTAEECLDRDEERAYVLYM KYVTVYNLIKRPDFKQQQDY FHSILGPGNIKKAVEEAERLSES LKLRYEEAEVRKKLEEKDRQE EAQRLQQKRQETGREDGGTLA KGSLENVLDSKDKTQKSNGEK NEKCETKEKGAITAKELYTMM TDKNISLIIMDARRMQDYQDSC ILHSLSPPEEAISPGVTASWIEA HLPDDSKDTWKKRGNV
11835	42203	A	11906	1	609	
11836	42204	A	11907	3	755	LRVDNAPAHASGLFFCAGAAG TVLFAMAPSRNGMVLKPHFHK DWQR\RVATWFNQPAR\KIRR\R RPRQAKARRIGPAPRGGGPIRPI VRCPTGRVHNGSWRPGRGFQP GRSSRVAGHSPRKVAPDPSGIS VDPK\RETSSHGSPLQAQRAS GLKE\YRSQTQSSSPRKPSAS/PL *GDSSAEELKL\ATQ\LTGPVMP VRNVYKKEKARV\ITEEV\KNF KAFASLRMARA\NARLFGIRAK RAKEAAEQDVEKKK
11837	42205	A	11908	1	327	
11838	42206	A	11909	1	756	
11839	42207	A	11910	1	219	
11840	42208	A	11911	2	227	
11841	42209	A	11912	1	567	
11842	42210	B	11913	99	799	
11843	42211	A	11914	61	342	
11844	42212	B	11915	1	945	
11845	42213	A	11916	92	133	DPPSQKLKTLRKD*TNG*LQ*P MKRSP*MT*WS*KP*HENYVTH AQASVPDSINWKKGYQ*LKIK* MK*SKKRSLEKKE*KETNKASK KYGTM*KD
11846	42214	B	11917	1	368	
11847	42215	B	11918	1	106	
11848	42216	A	11919	1	705	
11849	42217	B	11920	1	834	
11850	42218	B	11921	1	1305	
11851	42219	A	11922	1	1187	
11852	42220	A	11923	228	619	

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11853	42221	A	11924	1499	2238	KGKKKVINQISLGQRMRLSQSS HGKVQACQVPFHPNAPPVQF QSRELQSGSRPRSCGEKATRCL RQGPREVPLPKNAWA*QRKQE KKRSRKGS/GREPGLRRPPNAQ ARDRSSRAPATHRKELKPEREH ISCSRSHIRYQEWSVLRDTVHR NLVLDTKRHPALILVEYKERTS SPATEQSCMENDFDELREEGFR RSVITNFSELKEDVQTHHKEAK NLEKRLDKWLTRINSVEKSLND WMELKTMA
11854	42222	A	11925	699	796	
11855	42223	A	11926	1029	1223	ERELDPDLRFPSEGNASALLSAS RTVRASTDRLPLSGTP*RDEPGT SDGNAEITRLLRRSGWEL
11856	42224	A	11927	186	1597	
11857	42225	A	11928	1	1200	
11858	42226	A	11929	1	600	
11859	42227	A	11930	1	663	
11860	42228	A	11931	908	1331	GDMRGRREGGFGLGRRTAMRC GCSPGIVREADNLVKLSRPSTV RVTRSSASVMVLT MPLAPATFL RVNCWAG/RGR/C*SQNETVSR TRCEEGR**KDYRVEEQRLRKN WDLARPGEEQLAPSPEKRDPL RVKDQGRHPCVV
11861	42229	A	11932	1	1707	
11862	42230	A	11933	1	1012	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQPDLIDIYGTLHP KSTEYTTFSAPHHTYSKIDHILG SKALLSKCKRTEIITSYLSHSAI KLELRIQNLTONHSTTWKLNNL LLNDYWLHNEMKAEIKMFFET NENKDTTYQNLWDAFK/RSV*R EIYSTKCPQEKAGKIQN*HPNID QQN**TTSKANKEKKREDSNRC NKK**RGYHHRSHRNANYHQR ILQ/YTSMQIN*KI*KKWINSSTH TLSQD*TRKKLNL*IDQ*QELKL WQ*SIAYQPKRVQDQMDSQPN STRVASKRIKYLGIQLTRM*RTS SRRTTNHCSMK*KRIQTNGRTF HAHG
11863	42231	C	11934	1	1788	
11864	42232	A	11935	550	827	DVSWAGRSEDHRWIFLKEQRT GGPPK/ERSRSESRHQISCMCAA STWMERTAYGGSHRELLQL PQEHTRKTLPLQQTSAWTYRLF HTSCEI

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11865	42233	A	11936	584	1094	NWIPSLHLTQKLIQDGLKT*ML DLKP*KP*KKT*AIPFRT*AWAR TSCLKHQKQWQQKPKLTNGI*L N*RVSA/PAKETTISMN/EATYR MGENFCNLLI*QRANIQLQ*T QTNLQEKKNQPHQKVGKGHEQ TLLKKRHLCSQKTHEKMLIITG HQRNANQNHNEMPFHTS
11866	42234	A	11937	797	1044	EESIS*KWPYCP*R*FVDSMPSPS SYR*VSSQNWKLL*SSYGTKQ EPTLPSQS*AKRTKLEASHYLTS NYTTRLQ*PKQHGT
11867	42235	A	11938	176	374	LTNQKKSRTRWIHSQILSEVQR GADKQPNRE*TPIHNCFKENKIP RNPTYKGCEGPLQGEQTAAQ
11868	42236	B	11939	1	1843	
11869	42237	A	11940	3227	3391	DPLPGQRQLLLQKQRRP*TQAG LLSFQPGPQPHGSVPPTLSQPW LPGGWPELSG
11870	42238	B	11941	1	1479	
11871	42239	B	11942	1	2097	
11872	42240	A	11943	654	1341	KNRNYNKLSLRPQCNQTRTQD *ESHKPLNYMETEQPAPE*LL GT*RNEGRNKDVL*NQREQRH HIPESLGRIQSSV*REIYSTKCLQ E//MQERSKIDTLTSQLKELEKQ EQTHSKASRRQE/DN*NQSRTE GNRDTKNPSKNQ*IQELVF*KD QQN**TASKTNKEKKREESNRH NKK**RGYHHRSHRNTNYHQRI LQTPLRK*TRKSRRNGYIPRHH SPKTKTGRS
11873	42241	A	11944	471	611	
11874	42242	A	11945	1	585	
11875	42243	A	11946	3	1029	GRQHGGSQRMGGTASARASSG RLAPRGRGAFRRRCPSRRW RLTCGPAAVEHSFCHNVGPGV RATADKYTCMFTYASQGGTNE QWQMSLGTSEDHQHFTCTIW RPPRGKSYLIYFTQFKAEVAGR LRFYRHGLTFKAA/SLKRES VPLENLRNFEVNQNSSGLTRPG GISKAELSKLVIVGQGIRALSCD QQPLLRRGGTFSSPVKLKGACVP ERAQHITGFLGGTLKFSTWADV ALSRRGFSGWLKPWGREQRVQ GPPGSQQLFRFPLPVKLFWTQD RRSRGTKRVGNMGAMLGKAA MLPPTSSRASFMQLQNCFPMT QGTSFQMNWEEMKCFIFK
11876	42244	A	11947	1	1206	

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11877	42245	A	11948	1	654	
11878	42246	A	11949	849	1089	SPEGKHYRCYLVHMPSDTERSS L*MRPRAGRSSAEGPGCRQRSL ALDHMVQQAQRCWRYQWWR RFSKEFNQWWRRFSEEL
11879	42247	A	11950	5	1376	
11880	42248	A	11951	2	278	VPQPDTRKGSVLKWISKRGKPL AVEIEESHCLCLPLRTECLGIKP IVHLFSCTRPVIVPSLELNVDV DSIAHMFVADLLLMITLPSYDIP
11881	42249	A	11952	3	267	
11882	42250	A	11953	1152	1338	FKRGQYGRLLRPRFHHGQILYA RRQGAEP LAIQVHHAVCDGFH VGRMLNELQQYCDEWQGA
11883	42251	A	11954	394	615	ASDPLRGLLCGPSLLDERHPLL HGAQSHRPPKG*GVRANNAGL AGSSIYLQPRCGIHEVKPSGLLS REGLQLQS
11884	42252	C	11955	114	362	
11885	42253	A	11956	1	211	
11886	42254	A	11957	395	547	
11887	42255	C	11958	412	641	
11888	42256	A	11959	3	905	SNNSPTSASRVAGITGVRHCVR NWWVLGLTDFKNEAVDPRAW TTKSKTPQNKTKQENKNEDV GRDQRVEWLVTTEEVSLSLKG EKLHWKEKEVQSTGKETDARS SMRNYLMLLGPEVQEKEPVKR RLARGKAFVELAEPTRAPGNSG FPVSGGVFTPSLGALTWICKFR VKSWAILNSQLLLDTMKGIV YKNGDRIQGNRSADNRNNGVP LTGARDMQPAMPEPPTHSMGS CAARAFPMASASCFRAPSPIDH PKAEE\WGARRGTGGQPTCSP GAGIHWVKPAGLLSREGLQLH
11889	42257	C	11960	482	709	
11890	42258	A	11961	1	734	MRLESD/KHLVQFVPIHKSG\L EYPIGPWLPFITNSRVQEAFYH DRHSFEAVLDLNAAPESVDLAE AERLAEDLRLLYVALTLSAFAP LVRRRGDKKGD TDVHQSA LGR LLQKGEPQDAAGLR TCIEALCD DDIAWQTAQTGD NQPWQVND VSTAELNAKTLQRLPGDNWRV TSYSGLQQRGHGIAQDLMPRL DVDAAGVASVVEPTLTTHQF PAGASRGTFWHS LFEDLDFTQ PVDPNWRL
11891	42259	A	11962	21	898	
11892	42260	A	11963	1	1962	

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11893	42261	A	11964	1	313	MRFYGQLAEDPGQKAGETTR HTEDYISQLPLQRQGIPELALQK DLFINKIYGKEFNVCSTLEDPR VHVLCRDMDEAGNHHSEQTIA RTENQTPHVLTHRRELNNT WTQGGEHHTPEPVMGWG*RPR AAKSWGNNKAY*RLYFSAFA ETRDPRTCPSESFY*QDLWK/ MSSMSAGRL*RIPEFMSFVGTW MKLETIILSKLLQGQKTKHRMF SLIGGN
11894	42262	A	11965	47	178	QQLVHTAFVIRLIRGTTEGAWR NCKQMAR*QSI SLECKFMPRT
11895	42263	A	11966	2	223	
11896	42264	A	11967	2	133	
11897	42265	B	11968	179	6003	
11898	42266	A	11969	1	1125	
11899	42267	A	11970	1	360	
11900	42268	A	11971	677	1238	
11901	42269	C	11972	193	471	
11902	42270	A	11973	17	280	
11903	42271	B	11974	1	654	
11904	42272	B	11975	526	597	
11905	42273	A	11976	1	1261	
11906	42274	A	11977	170	998	
11907	42275	A	11978	1	1130	
11908	42276	A	11979	1	369	
11909	42277	A	11980	1	300	
11910	42278	C	11981	207	451	
11911	42279	A	11982	1	348	
11912	42280	A	11983	2	469	RGIREGEEFDVDLAGMEVAVG GWGRGLWLHRHQAGIRGQSLG WRCRPWVGAGGVQAASERPD LAGSIMGPEVGALRRASPVIVIQ SQAGAFLLSSNTTCQQFRDPGFR GRYPASPHTLSLPPETAHL*LLL CLPAAGVLPHTWPLLDRQGW RGHAR

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11913	42281	A	11984	1	937	MAAPLVLVLVVAVTVRAALFR SSLAEFISERVEVVSPSSWKRV VEGLSLDLGVSPYSGAVFHER QYIPVKMKSKAFWIFSWEYAM MYVGS/HSGNHLPLLLPSQLLG FHPRSL/VALYFLFQISLQTLVIF WYFFAEMFEHFSLFFVCVFQIN VFFYTIPLAIKLEHPIFFMFIQI AVIAIFKSYPTVGDVALYMAFF PVWNHLYRFLRNIFVLTCHIVC SLLFPVLWHLWIYAGSANSNFF *GITLTFNVGQRPHRLKAPRASS AARSDRGPAASPASPGDAARPV SGRRPWDAPPHNYLNAVPPPSR
11914	42282	A	11985	1	521	
11915	42283	A	11986	1	207	
11916	42284	A	11987	1	867	
11917	42285	C	11991	1	225	
11918	42286	A	11992	72	425	
11919	42287	A	11993	1	354	
11920	42288	A	11994	460	752	
11921	42289	A	11995	93	401	PQKKYIHIFLDSLALLPRLECSG AISAHCKLHLLVSSDSPASASQ VAGITGARHHAWLIFVFLVEM GFHH/VGQAGLELLTSGDPPAL ASQRAGVSIFIYLFIF
11922	42290	A	11996	2	315	
11923	42291	A	11997	615	1180	
11924	42292	A	11998	3	151	
11925	42293	A	11999	2126	2241	
11926	42294	A	12000	1	765	
11927	42295	A	12001	924	995	
11928	42296	A	12002	1	789	
11929	42297	A	12003	2	132	FFFFFLVEMGFHHVGQAGLKL TSSDRPPWPPKVLGLQARAT
11930	42298	A	12004	504	755	

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11931	42299	A	12005	1	1322	MAILPKVIYRFNAIPIKLPVTFFT ELGKTTLRFIWNQKRACIGKSV LSQKNKAGGITLPDFKLYYKAT VTKTAWYWYQNRDIDQWNRT ESSEIMLHIYNHLIFDKPDKNKK WGKDSL FNKWCWENWLAICR KLKLDPFLTSHTKINSRWIKDL NVRPKTIKTLEENLGNTIQAIG MGKDFMTKTPKAMATKAKID KWDLIKLKSFCTAKETTIRLLG RPPALFTASSSVLKQLALEGILI LDSRALLGFLYEARHSHSNSPN HDAQNATSKKNIRDGYDKIYR QEQVLARMEEKTITAGGNVK WCSHFRKQIGGQWLTLETCTK TPQPFSSTSQISTDKDKGLNPQL LKMDPGHMGWCPPGMGIPWQ LSSDDR VVWLAAGSGRHPGS GFKSL/PGLLHEGSYGH****S*I *GGNS*GSSGGPQCISGEERVFR
11932	42300	A	12006	12	143	
11933	42301	A	12007	1	534	
11934	42302	A	12008	1	591	
11935	42303	A	12009	2	353	
11936	42304	A	12010	1	1923	
11937	42305	A	12011	1	465	
11938	42306	A	12012	1	784	PGWEKMSRSSSVNTQEALPT AAIPRDAKGRVYYFNHITNASQ WERPSGNSISSGGKNGQGEPAR VRCSHLLVKHSQSRPSSWRQ EKITRTKEEALELINGYIQIQS GEEDFESLASQFSDCKHQPKA RG\DLGAFQKKVRLQKPF*RTP RFALADGGR*AGPCFTD\SGIHII LPHLSEGWGAQAWPRGRAGRL GRPAPPCPPASGRTPHSLPPSHSI YCSHNGWEGALPDWGPFTQGG PGVPHSLSVPSWGC DLQTLH
11939	42307	A	12013	1	319	PRERAPRGSVGAGGEICHTSVC CCQPSWTRL LLLITWMLL/YYS ECKPFHCSREEPDN HILLKI*EF GPPSTQGQHAAPLSRSRYSCCP DRYLLRKLGCQEHQLL
11940	42308	A	12014	1	1058	
11941	42309	A	12015	1	861	

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11942	42310	A	12016	1	431	IVLGGVATTVCQLNEFIMTDNA VPADVLVLTKPLGTQVAVAVH QWLDIPEKWNKIKLVVTQEDV ELAYQEAMMNMARLNRTGGL LICLPREQAARFCAEIKSPKYGE GHQAWIIGIVEKGNRTARIIDKP RIMEVA\HKWPLKM
11943	42311	A	12017	1	1020	
11944	42312	A	12018	247	1436	GERGPRTMSTRESFNPESEYELD KSFRLTRFTELKGTGCKVPQDV LQKLLESQENHFQEDEQFLGA VMPRLGIGMDTCVIPLRHGGLS LVQTTDYIYPIVDDPYMMGRIA CANVLSPLYAMGVTECDNML MLLGVSNNKMTDRERDKVMPLI IQGFKDAAEEAGTSVTGGQTVL NPWIVLGGVATTVCQPNFIMP DNAVPGDVLVLTKPLGTQVAV AVHQWLDIPEKWNKIKLVVTQ EDVELGLPGRRLMNMARLNRT AAGLMHT\FNAHAATDITG\FG ILGHAQNLGQASRRNDVSFVIH NLPGAWPRWLAVSKACGNMF GLMHVTCPETSGG\LLICLPRIE QAARFCAEIKSPKYGEGHQAWI IGIVEKGNRTARIIDKPRIIEVA\ HKWPLKM
11945	42313	A	12019	219	380	RPLQIRSHSELLGVWTPTESEF*E DTTQSVTAGLLEVSWGRVVLC SKSFPALQS
11946	42314	A	12020	1	516	
11947	42315	A	12021	1	228	
11948	42316	B	12022	56	656	
11949	42317	A	12023	1	488	
11950	42318	A	12024	3	419	
11951	42319	A	12025	1	348	
11952	42320	A	12026	1	708	
11953	42321	A	12027	25	213	
11954	42322	A	12028	1	1165	
11955	42323	A	12029	1	411	
11956	42324	A	12030	1	996	
11957	42325	B	12031	1	744	
11958	42326	A	12032	1	444	
11959	42327	A	12033	1	555	
11960	42328	A	12034	1	2241	
11961	42329	A	12035	1	408	
11962	42330	B	12036	1	423	
11963	42331	B	12037	1	507	
11964	42332	A	12038	3	529	
11965	42333	A	12039	191	319	
11966	42334	A	12040	1	660	

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11967	42335	A	12041	1	579	
11968	42336	A	12042	1	2940	
11969	42337	A	12043	1	4280	MEYYAAIKKDEFMSFVGTWM MLETIILSKLSQGRKPKRRMLSL IGSQLLTNKGTSMWENEFDELT EVGFRRTLHPKSTTEYTFFSAPH CTYLKIDHIIASKTLLSKCKRTEI ITNGLSDHSVIKLELKIKKFTQN CTTTWKLKNLLNDYWVNNEI KAEIKMFFETSENEEDTMYQNL WDTFKPLCRGKFIALNAHKRK QRRSKIDIQTAQLKELEKEQQT NSKASRRQEITKIRAEKVTETR KTLQKINESRSW
11970	42338	A	12044	1	645	
11971	42339	A	12045	3	362	LDQLLDMSYE/QLMQLYSCAQ RRRLNPGLRRKQHSLLK\RLRK AKK/EAPMEKPEVVKTHLRD MIILPEMVGSMVGVYNGKTFN QPEMIGHYLGEFSITYKPVKH/G RPGIGATHSSRFIPLK
11972	42340	A	12046	1	519	
11973	42341	A	12047	2	599	PPRSEDPAKMAEVEHEEGSG PFRKFTLPAAVDL\DQ\LLDIVPT KQFDAAVQVAAQRRRLEPGGL RRKQ\HSPA*KRLRKAKKGGPA PWRKPEVVKT/HTLRDYDHSYP EMVG\SMVG\IVYNGK\TFNQV GDQGVCGRPCRLGWAGVA*CR RDQLTPSFALGLPQPEMIGHYL GEFSITYKPVKHGRPGIGATHSS RFIPLK
11974	42342	A	12048	8	224	RTASYPRRFPWDHLLICPCQQL LICFLSLWIRLVFTKVSCT*NHN NMFSCVWLLLLSMIFLRFTHIA CIRNI
11975	42343	C	12049	65	163	
11976	42344	A	12050	3	187	
11977	42345	A	12051	3	689	HASDQKEIIIEPFQAVDEVERVP EDYYTGPPVYLTEVTTLQQRLLQ PDFQPVCASQLYPRHKHLLIKR SLRCRKCEHNSKPEFNPTSIKF KIQLVAVNYIPEVRIMSIPNLRY MKESQVLLTLNPNVENLTHVTL LECEEGDPDDINSTAKVVVPPK ELVLAGKDAAAAYDELAEPQD FQDDPDIIAFRKANKVGIFIKVT PQREEGEVTVCFMKHDFKNL \AAPISP
11978	42346	A	12052	1	882	
11979	42347	C	12053	152	404	

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11980	42348	A	12054	3	398	LRKIKIDLGKFSNDPDGYIDVLQ GLRQSFDLTWRDIMLLDQSLT PNEKSAAKTAAREFGDLWV/S FQN*SCKTTNRSSNGAPDAVHD *D/PTADPWTGPLAHMLMTL KAPLTRKSQLHDPYYAPIQQA V
11981	42349	A	12055	2	286	
11982	42350	C	12056	261	482	
11983	42351	B	12057	1	1133	
11984	42352	A	12058	438	575	NKTRMPSLTTPLOHSTESPSQSS QTREGNKGYPNW*RGSHTVTV C
11985	42353	B	12059	50	309	
11986	42354	A	12060	1	870	
11987	42355	A	12061	148	368	ELSSCSLMSHRAIHPSEERATT T/NQQSEPGSW*GWVGANRWC HKMSSGSLGTEPCGSCCLACSA WTVTVQAQ
11988	42356	A	12062	405	707	RLSLQTAGCSDVPVFPSAPSGPP SPA*AP*SGSAASPWPPFAPSAA HVAMPAPPRHWPQLSLKMPPW PPDSPVPPGCLA*AEAPPHCPV HLPASRSALS
11989	42357	A	12063	90	470	KSVHSLPPSFSSLLPWTNRTLS KPPALPSPSRQPECRRLLHCSG SRHSSCPSSSSSPSFSSSPSSSS SASASPPPPSPSPAPP*LWLQPL FCSQ*QLCHCQELVHLESRLTY PYHSSNQPF
11990	42358	B	12064	1	474	
11991	42359	A	12065	1	383	MEYYAAMKNDEFMSFVGTWM KLETIILSKLSQGQKPNTACSHS WMDPQRRGKRQSLISEAGAN QFPKSVFRFFGLGDSKVGSKWS ATCACEPIHTSEYCGDRVICKTT SSLRGASFAWCSSNGE*WFPA SSMSLQRT
11992	42360	A	12066	1	384	MIITGLEDYEMGLRMEGTLEIP GHYQKDKFLAQSTPDLLPKTS LTNPFSINQILAERQIVTFTVYP DTERDRETRNLADLKQIKIDLG KFSNDPDGYIDILRGLRQSFDLT WRDIMLLNQTLPAN
11993	42361	A	12067	152	238	
11994	42362	A	12068	89	544	
11995	42363	A	12069	62	199	SWKPSFSANYHKDRKPNTACS HS*DPAFLAPSPVP*SRPLRPPQ D

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11996	42364	A	12070	1	655	SVSGLVEKVTFEQRLKGGEGDS TVGSSGNEIFRQWPCWELSNGC SLQGDAGCSCLVVHVTFPAGSL SGDGLPTAQWLQSLVLVAGGR RVNSTQGHRCHHWGSVAEPCV LVKRHHAAQEGLCSFQKTPRS QVPFHLFWDPGHHTLLCSYCPS VGVAGTQPAVQAVSTAV*TAAE GEPLPMSNMRLVFCPCDSLL RMMVSSFIRVPTKDMNSSFFM
11997	42365	A	12071	1	987	MLVLGYNRKNTEGTQKQKGT NASDFHFLSQVLEQVSPKGSK EAQCCVLRHLGCESSESAPGIPP NLGIQLLTWAVMWDPFPTTLA RAPSLALELMTQYFNNWNWV YNNITDQGESKMSKLKGKERR QREGERRERKREREREKRESQR KERKREKKGKKREKEDRSDL KQIKIDLGKFSDTPDGYIDVLQ GLGQPYYL TWRDIMLLLDQTL TPNERSAAITAVREFGDLWYLS QVNDRKITEEREQFPTGQQAVP SVDPHWDTESEHGDWCHRYLL TDVLEGLRKTRKKPIN*SMISTI TQGKEENPTAFLERLREALRKH
11998	42366	A	12072	1153	1379	CLASWKEKSLLHCPQRKQRLR GEELEKLKKWKETATQIKRSYC WI*PSKSPHYLTS*KR*WNY**L GNYNSIPAS
11999	42367	A	12073	1	864	
12000	42368	B	12074	8	441	
12001	42369	A	12075	62	332	TDSPHCTDPPSRPTVPASCLKRK CCGSTMPTARPIMPTLMETR*M PISPRVSWAGPRPTSWPALISST LFPRMANHWRD*SRITWFQGG A
12002	42370	A	12076	34	409	TRAAGIRHEGKPEKTGLKRNFT N/DCRKS*TSG*RSTTSSRSRSPS PAPRSRSCSR\RDLPAPPPLSRSG DRPQTAPSCPMWRARLPSCPGS AIPIRPAWTRSACCGAASTRLR PFSGSSTSPQWM
12003	42371	A	12077	1054	1368	
12004	42372	A	12078	298	514	PNWFKHDVSKSESFSNKMWIA KILKA/ARPAPLTQCV/RNSCFL QCRHLSSVSASDLT*DNVKRQF CVSPHTES
12005	42373	A	12079	2	1613	
12006	42374	A	12080	2	106	

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12007	42375	A	12081	42	305	YNTVLPKACLCGSLICWMN*SH SDQNMQVSVERSRLRVLYAC CGLLLCTAYPQHFAHRYVDKIP GYPSRAGTLTGLHPMQVCRCR
12008	42376	A	12082	206	6038	
12009	42377	A	12083	1	4316	MQWEEAEKDPGSCVFQRPPV ALVFPLHSKWTLVNSPPSSGDP YVPGRPAQSGQLSLSPAPPYVL PGPGKIKQAGNNPSLTSIYRSEV FCAHRHLHPPQLVCARGHIGSA HLSVDRGSLIWEVLESTVWART NEWSPVTRTVLISALASTHIPQP CESRPPVPPEYEVTVLRSQGT QLPPWSSSTSWRLTDPSCPKHA AWLTDLASSKGPAAGGTGSFS QPGTLTSTRTNPLKKEKSPEDL KQIKIDLGKFSDN
12010	42378	A	12084	393	991	
12011	42379	A	12085	324	438	
12012	42380	B	12086	528	598	
12013	42381	A	12087	52	574	
12014	42382	A	12088	1235	1366	
12015	42383	A	12089	1	1800	
12016	42384	A	12090	1	513	
12017	42385	A	12091	3	77	
12018	42386	A	12092	1923	2171	GAFCPFTLLHGYQVLQWPGSSL PHKEGPAPALEGGHVYPRWI*A SADSQSTEAGRIGPASTG*RQYP GGEEHACCLPALLHS
12019	42387	A	12093	1	360	
12020	42388	B	12094	21	3636	
12021	42389	A	12095	1	936	
12022	42390	A	12096	1	599	
12023	42391	A	12097	1	248	VGKSSIVCRFVQDHFHDHNISPTI GASFMTKTVLCGN/ELHKFLIW DTAGQER/SRQIPPLDPHENGNN GTIKVEKPTMQASRRCC
12024	42392	A	12098	1426	1572	
12025	42393	A	12099	367	513	
12026	42394	A	12100	31	661	APALPGCEHMMAIKELKVCLL GDTGVGKSSIVCRFVQDHFHDH NISPTIGASFMTKTVPCENDFT KFLIWDTAGQERFYS LAPMY RGSGAAVIVYDFTEAGFHFHPL KKWVKRLKELGPEINIVMAIA GNKCDLSDIREVPLKGC*RNTA ESIGAIVVETS AKNAINIEELFQ GMSRPDPHPWTPHENGNNGTIK VEKPTMQASRRCC

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12027	42395	A	12101	1	487	MDKFLDITYTLPRLNQEEVESLN RPITGAEIVAIINSLPTKKSPGPD GFTAIFYQRLISNFSKVSQYRIN VQES\QAFLYTINRQTESQIMSA LPLTIASKRIKYLGIQLTRDVKD LFKENYKPLLNEIKEDTNKWK NIPCSWVGRINIVKMAILPKNW KKLL
12028	42396	A	12102	1	1563	
12029	42397	A	12103	1	1449	
12030	42398	A	12104	3	1606	
12031	42399	A	12105	2	402	
12032	42400	A	12106	172	329	
12033	42401	A	12107	1	720	
12034	42402	A	12108	97	206	
12035	42403	B	12109	1	1248	
12036	42404	A	12110	1	1419	
12037	42405	A	12111	1	1387	MDKFLDITYTLPRLNQEEVESLN RSITGSEIVAIINSLPTKKSPGPD GFTAIFYQRYKEELVLLLKL QSIEKEATLPNSFYEASIIIPKP GRDTTKKENFRPISLMNIDAKIL SKILANQIQQHIKKFVHHDEVG FIPRMQGWFNHKSKNVIQYIN RTKDKNYMIISIDAEKAFDKIQ QLFMLKTL SKLGIDGTYLKIIRA IYDKPTVKIILNGQKLEEFPLKT GTRQGCPLSPLLFNIVLEVLAR AIRQEKEIKGILLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLI SNVS\KV*GYKINVQKSQAFLY TTNRQTESQIMSELPFTIASKRI KYLGIQFTRDVKDLFKENYKPL LNEIKEDTNKWKNI PCSWVGRI NIVKMAILPKPLLIPRQTGSGV DLQQTPTDLQLSVLTVRRKINK QKGHPHQYLIWTSPPSKTKGRQ LLASNRTKLDGE
12038	42406	B	12112	1	711	
12039	42407	A	12113	1694	4489	IYRFNAIPIKLPMFTFFTELEKTTL KFIWNQKRARIAKAIRSQKNKS GGITLPDFKLYYKATVTKTAW YWYQNRDIDQWNRTEPSEITPH IYNYLIFDKPEKNEQWGKDSLF NKWCWENWLAICRKLKLDPFL TPYTKINSRWIKDLIVRPKTIKT LEENLGITIQDIGMGKDFMSKT PKAMATKAKIDKWDLIKLSF CTAKETTIRVNRQPTKWEKTFA TYSSDKGLISRIYNELKQIYKKK TNNPIKKWAKDM

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12040	42408	A	12114	1	115	
12041	42409	A	12115	58	414	
12042	42410	A	12116	6	389	VMTTGTNSRVEPRVRGRVYKK KMDKKRQEKITEAKSKDKSQM DEEKTD/DEKPKLQVELEQEYQ DKFKRLPLEILEFVQEAMKGKI SEDSNHGSAPLSLSSDPGKVNH KTPSSEELGGDIPGKEFDTP
12043	42411	B	12117	50	5137	
12044	42412	A	12118	1	1194	
12045	42413	A	12119	1	2559	
12046	42414	A	12120	3	406	
12047	42415	A	12121	119	423	TSSCSSEK FVITHLLKPTSVNSS KSFSFQLCSIG/VQGAAILWRRR GSLVFRIFSFSALVSPHLCGFIYL WSLTMVTYFSLNNGRPPSPCQA AAPQVNLGLLC
12048	42416	A	12122	3	597	ISASASDNVFMVSVSPSCSSCFF TLRYRLWKSEKPLYYSFVDKP VAYKKREMVVN LQKQFKHTG RVQ/SSN LLEKKAPSSFQFNWT EEDTDRTCFHGHSLQGVLKEK GQSLLTKNSLYWLSTQKF*RCY GHHVPPYEESIYFLSNRFLNLF SFLRLIKTSFLHEEVSLVEK\KL FEEKIQCKKERNQDPRKVRTTL
12049	42417	A	12123	1	883	
12050	42418	A	12124	23	362	FAFNMPEPGKIVPAP*KGSKKA VTKAQNKDGEKRMLSRKESYS VYVYKVLKQVHPDTGVSSKG MGIMNSFVDDILERIAGEAFRL AHYNKRSTITSREIQTAVRLLLT REMOVK
12051	42419	A	12125	2	405	
12052	42420	A	12126	1	398	LHSAMPEPAKSAPAPKKGSKK AVTKAQKKDGKKRKRSRKESY SIYVYKVLKQVHPDTGISSKAM GIMNSFVNDIFERIAGEASRLAH YNKRSTITLPREIQTAVRLLLP GELAKHAVSEGTKAVTKYTSA K
12053	42421	A	12127	1	401	
12054	42422	B	12128	48	424	
12055	42423	A	12129	3	462	DAWVSGRLTELPSSCFFPPIFRQ LLPVMPEPSKSAPAPKKGSKKA VTKAQKKDGKKRKRSRKESYS VYVYKVLKQVHPDTGISSKAM GIMNSFVNDIFE\RIAGEASRLA HYNKRSTITSREIQTAVRLLLP ELAKHAVSEGTKAVTKYTSSK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
12056	42424	A	12130	74	504	FAFNMPEPAKSAPAPK\KGSKK AVTKAQKKDGGKRRK/RSRQGR AYSVYVYKVLKQVHPDTWHL LLRPWGIMELLSFNDFRNGIAG LRVSRLGRI*QQGVSTIHLPGEI HDGPLRLACLPGGVWPSKAVF RGAPRPFNQVNTSV
12057	42425	A	12131	53	471	
12058	42426	A	12132	1	241	FKDTCTRMFIAALFTIAKTWNQ PKCPTMWHIYTMEEYAAIK/SD EFMSFVGTWMKLETITLSKL*Q GQKTKHRMFSLLIGGT
12059	42427	A	12133	1	244	
12060	42428	B	12134	1	2142	
12061	42429	A	12135	1	1962	
12062	42430	A	12136	3	393	IWMKLETIILSKLSQG*KTKHR MFSLTGGNLTMR TLGHRLLPSL PHRLRPCARLHLRCPWP PPSR RRCARSTTPTATPPSTATSRWSS TPPTCTCLWPSTSTGTTWPWRT SSATSCACRTTKWSMPRS
12063	42431	A	12137	2	87	
12064	42432	A	12138	1	270	
12065	42433	C	12139	1	214	
12066	42434	A	12140	1	684	
12067	42435	C	12141	1	333	
12068	42436	A	12142	1	189	
12069	42437	A	12143	215	310	
12070	42438	A	12144	2	91	
12071	42439	C	12145	1	229	
12072	42440	A	12146	1	268	
12073	42441	A	12147	1	278	
12074	42442	A	12148	2	274	WMKLETIILSKLSQRQKTIHHLF SLIALFTIAKKWKPPRYLSVDK WIKKLWY/HTYTMEEYSAFKK EAILPIAIAWMGLKDIMLSEISQ TWP
12075	42443	A	12149	2	136	
12076	42444	A	12150	2	95	
12077	42445	A	12151	1	233	
12078	42446	A	12152	377	484	
12079	42447	A	12153	2	91	
12080	42448	A	12154	1	891	
12081	42449	A	12155	1	1194	
12082	42450	A	12156	785	892	
12083	42451	A	12157	191	317	
12084	42452	A	12158	410	520	
12085	42453	A	12159	683	796	
12086	42454	A	12160	830	927	

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12087	42455	A	12161	18	539	PTDP*LGIIYQKEYKSCYYKDICT/RVVCVPAALFTIANTWNQPKCTSMIDWVKKMWHIYTMEEYYAAIKTDEFMSFAGTWMKLETIILRKLSQGQKTKHRMYSLIGGNLTMRFTFGHSAGSHHTPGPIMRCGAGGGIALGEIPNVNDELMGTANQHGTCPMQQNCTLCTCTLKLKV
12088	42456	A	12162	1	108	ASTAGVSYYVAQAGLKLLGLSLSKCRDYRCEPPCPE*MSLYKV MAMARKAMSL\YIYFFLDEFMYFAGTWMKLETIILSKLSQGQKTKHRMFSL*GVSYYVAQAGKLLGLSLSKCRDYRCEPPCPE
12089	42457	A	12163	1	701	
12090	42458	A	12164	274	435	
12091	42459	A	12165	1	3658	
12092	42460	A	12166	749	856	
12093	42461	A	12167	1	598	
12094	42462	A	12168	538	664	
12095	42463	C	12169	1	873	
12096	42464	B	12170	177	325	
12097	42465	B	12171	1	1245	
12098	42466	A	12172	1	3313	
12099	42467	A	12173	1940	2060	
12100	42468	A	12174	1	1213	
12101	42469	B	12175	155	559	
12102	42470	A	12176	2	321	PAPRGGAYRGRQTSLSGGLHPV*ASWLLCLPKQAWAM/VGRP PQASLLPCSLISDCCASNQRDSVG VGPSEPCAGYNLLLCRFLSQSEKHSIRVGAVDCSCSYLAIL
12103	42471	A	12177	1	519	
12104	42472	A	12178	1	477	
12105	42473	A	12179	119	375	KRTQT*AIAGAPPPASLPPCSLIS DCCASNE*GSVGIGPSKPGAGYNLL LCHLISPSISPTSSPKSDTCPI ADFSNKSPDRSSAGDILLAMQSLG SMAIFLILILPTREHGKFFHLFV SSFISLSSGL
12106	42474	B	12180	1	363	

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12107	42475	A	12181	1	1309	MAEGEEGTSYMAAGERVVAIA LIDGFRPLTLESTFFNSGSCSKL EQHSTYLGDFADFGTTIKQDFR LLGQTSVDRLLQLSQGQAVPEP KQHGIGPKQKYRSTGPNRALR NNAAYLQFLIFGNLEKTKPWG KDSLLIKVFEEAVLWIECFAFIF YDARGVLIVVQVDSCSKLEQHS TLSRALLIYKGFRCFRNHHQTG FSPAGANQRGPLAATLSGPGGE GQSAVARLTGEKKNHPGAQYA NRLSPRVGRFINAAGTTGFPTG KRAVSATQLMDFADFGTTIKQ DFRLLGQTSVDRLLQLSQGQA VKGNQLLPVSLVKRKTTLAPNT QTASPRALADSLMQLARQVSR LESGHLISDCCASNQPDVGVG PSEPGAGYNLVVRHFLSPSEKH SIRVGVTFRSRRPSPLPLTQKG NSLTPCASQLRQCLALLRLR*R AISCCPSHW*KEKPPWRPIRKPP LPARWPIH*CSWHDRFPD/CESG HLISDCCASNQPDVGVGVPSEP GAGYNLVVRHFLSPSEKHSIRV GVTRFSRRPSPLPLTQKGNSLT PCASQLRQCLALLRLRH
12108	42476	B	12182	1	1335	
12109	42477	A	12183	1	1675	
12110	42478	B	12184	57	1530	
12111	42479	A	12185	1	1419	
12112	42480	A	12186	1	574	RVDDFVRQTRPSAQAALAEKM AANQPPPLMMKHSQTDLVSRL KTRKILGVGGEDDDGEV/HRSP ISQALGTEIKFTIREPLGLTVWQ FVSAVLFSGIAIMALAFPDQLY DAVFDGAQVTSKTPIRLYGGAL LSISLIMWNALYAEKVIRWTL LTEACYFGVQFLVVTATLAETG LMSLGIRLTRSSRRGR
12113	42481	B	12187	79	387	
12114	42482	A	12188	1	908	
12115	42483	A	12189	2	70	
12116	42484	A	12190	1	1158	

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12117	42485	A	12191	2	611	FVSVPSVLLGLQFWRSERD/TARLQSARWRVERGRLEKLLSRQRPRRREEVVVGREVCRTMEV RASLQKIVSNGDEQLEKAMEEI LRDFEKRPSLLVDCQSSSEISD HSFGDIPASQTNKPSLQLILDPS NTEISTPRPSSPGGLPEEDSVLF NKLTYLGCMKVSSPRNEVEAL RAMATMKSSSQYPPFVTLYVP
12118	42486	A	12192	3	497	
12119	42487	A	12193	1	804	
12120	42488	A	12194	1	1243	MAPVEHVADAGAFRLHAAL QDIGKNIYTIREVVTEIRDKATR RRLAVLPYELRFKEPLPEYVRL VTEFSKKTGDYPSLSATDIQVL ALTYQLEAEFVGVSHLKQEPQ KVKVSSSIQHPETPLHISGFHLP YKPKPPQETEKGHSACEPENLE FSSFMFWRNPLPNIDHELQELLI DRGEDVPSEEEEEENGFEEDRK DDSDDGGGWITPSNIQIQQE LEQFDVPEDVRVWLA*PPDFA MQNVLLQMGLHVLAVNCMLI REARSYILRCHGCFKTTSDMSR VFCSHCGNKTLLKVSVTVSDD GTLHMHFSRNPVLPNPRGLRY SLPTPKGGKYAINPHLTEDQRF PQLRLSQKARQKTNVFAPDYIA GVSPFVENDISSRSATLQVRDS TLGAGRRRLNPNACRKKFVKK
12121	42489	C	12195	164	350	
12122	42490	A	12196	1	378	
12123	42491	B	12197	265	1539	
12124	42492	A	12198	1	2511	
12125	42493	A	12199	1	1077	
12126	42494	B	12200	38	1451	
12127	42495	A	12201	1	207	
12128	42496	A	12202	1	197	
12129	42497	A	12203	1	216	
12130	42498	A	12204	1	335	
12131	42499	A	12205	1	174	
12132	42500	A	12206	1	1309	
12133	42501	A	12207	1	1266	

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12134	42502	A	12208	1	590	IDRFDAPCGLEELEDHEDEFNE EDERAIEMYRRRLAEWKATK LKNKFGEVLEISGKDYVQEVTK AGEGLWVILHLYKQGIPLCALI NQNLISGLARKFPDVKFKAISTT CIPNYPDRNLPATILVYPGVDIN G\QFIGPLSV\GGMNLTRDELEW KLSESGAIMTDLEENPKKPIEDV LLSSVRRSGPHEEGQRFGR
12135	42503	A	12209	291	416	SHYDKIAEKLSEYDQISPPNSQ PDKENPVLST**SIQRRHMTLFK MNLKIILKYRKPEA*SQRLVSK R*KHSIRGSGINLSFVPTGFQIVP FHLFETSLWL
12136	42504	A	12210	437	773	DYTITGELKTAIQRSKINFCPIH SHSSHNAKSFVI*TVTLLHRHLL *KVSVNKVQSLFIQCGIFSEAGA GVYNYCPPPRQRRQPGDKPRW RWRRGRNNRCSANSHGLQLYA
12137	42505	A	12211	1	1183	
12138	42506	A	12212	1	459	
12139	42507	A	12213	1	513	
12140	42508	A	12214	91	1168	
12141	42509	A	12215	323	429	
12142	42510	A	12216	870	1305	SPGLPHCWQPCRARSRGTDVW NVLVS\GSGSGAYKEPAILVGPE NLTLTVHQTAVLECVATGNPRP IVSWSRLGWPPNPTAKEQEQRA KTESQRKQPRDKARENQPKAA RPKRAAPKSHEAARKTNPTAS TKRQAAPTNTPKESS
12143	42511	A	12217	1	2695	
12144	42512	A	12218	1	258	
12145	42513	A	12219	1	624	
12146	42514	A	12220	247	425	
12147	42515	A	12221	31	858	LLEIVNSSIQPEKQAGWLSQAV HGAPDGNRPM LHPETSPGRG HLLAVLLALLGTTWAEVWPPQ LQEQAPMAGALNRKESFLLLSL HNRLRSWVQPPAADMRLDW SDSLAQLAQARAALCGIPTPSL ASGLWRTLQVGWNMQLLPAG LASFVEVSLWFAEGQRYRHA AGE*ARNATCTHYMQLVWATS SQLGCGRHLCSAGQAAIEAFVC AYSPRGNWEVNGKTIVPYKKG AWGSLCTASVSSLLKAWDHAR GLLGGPRETLGKEPTEPWTALK
12148	42516	A	12222	1	1519	
12149	42517	A	12223	1	789	

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12150	42518	A	12224	1	505	ATEDPGVAMGRRPARCYRYCK NKPYPKSRFCRGVDAKIRIFDL GRKKAKVDEFPLCGHMSDEY EQLSSEALEAARICANKYMKVS CGKDGFIHVRVRLHPFHVIRINK MLSCAGAD/RIHISKKWGFTKF NADEFEDMVAEKRLIPDGCGRV KYIPSRGPLDKWRALHS
12151	42519	A	12225	135	828	RFWVSPHGPAAAPARCYRYCKN KPLPKVLRFCR\GVP\DAKIRIFD PGAERQKVE*VFRFCGHMVS DE\YNQLSS*ALEAARNLCPIS TMVKS\CGKDGFIHVRVRLHPF HVIPHQTRCCSCAGADRLQTG MRG\AFGKPQGTVARVHIGQVI MS\RTKLQNKHEV\IDALRRAK \FKFPGRQ\KIHISKKWGFTKFN ADEFEDMVAEKRLIPDGCGRV YIPSRGPLDKWRALHS
12152	42520	A	12226	2	367	
12153	42521	A	12227	2	376	QTYSLRRATPRHIIVGFTKVM KEKVLRAA/NKPIRLTVDLAET LQARKEGGPIFNILKEKNFQPRI SYPAKLSFISEGEIKSFTDKQML KDFVTTRPALQELLKEALNME RNNQYQPLQKHAKW
12154	42522	A	12228	1	714	
12155	42523	A	12229	122	939	YPGKQGLEWTSNKIQQTCS*GS SLLEGKLTNRKDIHTKTPSVRH/ RSSKAKERSVIEDQMNETKRE EMFREKRVKRNEQSLQEIWEY VKRPNLRLIGVPESDGDNGTKL ENTLQDIIQQYFPNLRQANIQI QEIQRMPQRCSSRAAPRHIVR FTKAEMKEKMLRAARGKGRV THKGKPIRLKVDVLAETLQARR EWGPIFNILKEKNFQPRISFPAK LSFISKGEIKSFTDKEMLRDFVT TRPALQELLKEALNMERNRY QPQKHAHL

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12156	42524	A	12230	1	1043	MGDFLHSTDRNYLIKFWAKLS AKKTPANSSSPLGDHQHPCITK NLQIPEKWLIGLLLPLKADLLK EDAGTHCKEAKNLDERLDEWL TRINSVEKFLNDLMELKTMAQE LHYACTSFSSQFDQLEERVSVIE NQMSEMKREEKFREKRVKRNE QSLQKIWDYVKRPNLRLTGVPE SDWENGTKLENSLQDIIQENFP NLARQANIHIQEIQRMPQRYSS RRATPRHLIVRFTKFEMTEKMV RAAREKGQVTHKGKPIRITADI SAETLQARREWGPIFNILKEKN FQPRISYPAKLSFISEGEIKSFTD KQMLRDFVTTRPTLQELLKEAL /NMERNNQYQLQKHAKL
12157	42525	B	12231	1	1275	
12158	42526	A	12232	1	1584	
12159	42527	B	12233	1	1023	
12160	42528	A	12234	1	2052	
12161	42529	A	12235	5160	6183	VSKHPQASAGDTQTNRVWSGP PANSRPAAGPDC*KEN*QTE RTSINQNPICMSPSSKTKEAKNL DKRLDEWLTRINSIEKTLNDLM ELNTMARKLRDACTSFSSQFDQ VEERVSVIEDQMNMKREEKF REKRIKRNKQSLQEIWDCVKRP NLRLIGVPESDGENGTKLENTL QDIIQENFPNARQVNIQIQEIQ RTPQRYSSRRGTPRHIVRFTKV EIKEKILRAAREKGRVTHKGKPI RLTAVLLAETLQARREWGPIFN ILKEKNFQPRVSYPKLSFISEG EVKSFTDKQMLRDFVTTRPAL QELLKEALNMERNNRYQLLQK HATLSRPSMLG
12162	42530	A	12236	1	975	
12163	42531	A	12237	3	1186	
12164	42532	A	12238	1	906	
12165	42533	A	12239	1	1882	
12166	42534	A	12240	1	1394	

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12167	42535	A	12241	1	4935	MGPGARLAALLAVLALGTGDP ERAAARGDTFSALTSVARALAP ERRLLGLLRRYLRGEEARLRDL TRCNDETITYLLDKRLTVLTAA NIPYSSPENGAKRRRQDAFPPIH YNTQDALLQYLSGVGWGAPPA AQAHRDAPFVDSIAQVLLRTSG GSAEASGWSLRSRWAVGGATG SWVLSKGDRA SLGERVV TGWA TLNVGRSFAYCLTTCVQPPLDV GPRKEHAPRPPSLSPSTRQRGQ SERSQDANGRRKQKT
12168	42536	B	12242	88	1014	
12169	42537	A	12243	686	1920	IKPQRWGKKQNRKTGNSKKQS ASPPPKERSSSPATEQSWTENDF DELREEGFRRSVITNFSELKEHV VTHRKEAKNLEKKALDEWITRI TNAEKSLKDLMEKTTAQELR NECTNLSNRCDQLEETVSAME DQIN/EMNEMKQEGKFREKRIK RNEQSFQ\EIGDYVKRPNLH/LI GVPESDGQNGTKLENTLQDIIQ ENFPNLARQANIQIE\QRT PQ RYSLRRATPRHIIVRFTKVEMK EK\MLSAAREKGR\VTHKGKPIR LTTADLSAETLQAQKTEWG\PIF NIL\KEKNFQPRISYPK\LSFIS EGEIKYFTDKQMLRDFCHHQG LPLKELLKEEALKHWKGTTTRY QPLAKTLPKYRSTRQKVNKDT QELNSALHQADLIDIYRTLHTK STEYTFQHHHTPIPKLTT
12170	42538	A	12244	1	633	
12171	42539	A	12245	3	109	
12172	42540	A	12246	2	575	
12173	42541	A	12247	1	237	
12174	42542	A	12248	1	1065	
12175	42543	A	12249	2	338	
12176	42544	A	12250	1	1319	
12177	42545	A	12251	1	744	MQKALCAAPDLGTFVTVLTPPP GAQIGSRRRERSKVPYIVRQCVE EIERRGMEEVGIYHVSGRVAA DIQALKA AFDVN/NRTMHSSWE ESDELLKARDDPHSGQHSDRG ALAKAGMADKKDMSVMMSET DMNAIAGTLKLYFRELPEPLFT DEFYPSFAEGIDRLERVAEKEA VNMKSLHNLATVFGPTLLRPSE KESKLPANPSQPITMTDSRSLEV MSQVEVLLYFLRLEAIPALDSK RQSILFSTDV

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12178	42546	A	12252	1	507	
12179	42547	A	12253	1378	4280	STPMAVAGPLGRPWSTSPTRAS TSGASWKGRARARSCAARAPL SRRSALPGPAGPTPPGVLRIAEA AIPRTAAPMRTSPPARRTSPLAS PAACPQAPPPTACSGTKAALPR RTRNSPSTAAVPPRRSAISGTGT ARLSCPRPPSWASARPGRSPT MTRAPSMETQMARSEHHLDTA ALQTGQRSSAGTKMGCPTLMT RPPHRPTSAARAGAAGMRWSR EP*SPLK/RSELDLEKGLEMRK WVLSGILASEETYL
12180	42548	A	12254	1	1109	MRTPYKTSPMRMLYMTSLMTP TRHANEDAVDDIAYKDTVQDI TSEDVYDIANEDVYDIANED ALQDIANEVAVYDIANEDIVYD IANEDALYDITNEDAVYNIANE DAVYGIANEDAVYEFANKHAV YDIANEDTVQDICKKEDAANK CYFPGFFPIRCRHEHLPVCIIDVI CSLIKCRHEHLPSSLIGQDRLGA QASRRERSKVPYIVRQCVEEIER RGMEEVGIYRMSGVAADIQAL KAAFNVSECRPAQDGMEVWA VVSAMRSQSAPRPRHVTFSVS FLHLSGSSRRPLHFRALS\NNKD VSVMMSMDVNAIAGSLKLYF RELPEPLFTDEFYPNFAEGIGEH WRPWPHGRRLLHVHCCPQRL
12181	42549	A	12255	1351	4308	WKGRARARSCAARAPLSRRSA LPGPAGPTPPGVLRIAEAAIPRT AAPMRTSPPARRTSPLASPAAC PQAPPPTACSGTKAALPRRTRN SPSTAAVPPRRSAISGTGTARLS CPRPPSWASARPGRSPTMARA PSMETQMARSEHHLDTAALQT GQRSSAGTKMGCPTLMTTRPPH RPTSAARAGAAGMRWSREPWS PLK/RSELDLEKGLEMRKWVLS GILASEETYLHLEALLPMKPL KAAATTSQPVLT SQ
12182	42550	B	12256	1	1017	
12183	42551	A	12257	2310	2834	EEKYNMQTRLRRAEDVFPVIG VAAHKGGVYKTSVSVHLAQDL ALKGLRVLLVEGNDPQGTASM YHGWVPDLHIHAEDTLLPFYL MLRLAIETVAHDYDVIVIDSAP NLGIGTINVCAADV LIVPTPAE LFDYTSALQFFDMLRDLLKNV DLKGFEPDVRILLTKYSNSNGW

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12184	42552	A	12258	106	108	NFLFVLRRQLWVGGLCW*AAE LNKVCL
12185	42553	A	12259	1	901	
12186	42554	A	12260	23	482	KPRELGPISPVWLPPDRLPERPQ RRRPSGVDPGSWLGSWSCSTG CSALMSCSCGSTPLLSLALKVT PGGVLGAPSGSEDGS*PNRKAC GSEMEICLTTRGVWGPEVALG VGGGLQQSCRAPCGGLPKLLRS WSQSSLSPNSPGRGASSGEAA
12187	42555	A	12261	1	1938	
12188	42556	A	12262	1	2235	
12189	42557	A	12263	43	1827	THVRLAGARASPRAPRLRPRKP RPQGLPCLPGLRRARLEGGARG RADEMFLPLPAAGR VVVRRL AVVRSGSRSLSTADMTKGLVL GIYSKEKEDDVPQFTSAGENFD KLLAGKLRETLNISGPPLKAGK TRTFYGLHQDFPSVVLVGLGK KAAGIDEQENWHEGKENIRAA VAAGCRQIQDLELSSVEVDPCG DAQAAAEGAVLGLYEYDDLK QKKKMAVSAKLYGSGDQEA QKGVLFASGQNLARQLMETPA NEMTPTRFAEIIKLNLSASSKT EVHIRPKSWIEEQAMGSFLSVA KGSDEPPVFLEIHYKGSFNANE PPLVFGVGKITFDSSGISIKASA NMDLMRADMGGAATICSIVS AAKLNLPINIIGLAPLCENMP SGKANKPGDVVRKNGKTIQVDN TDAEGRLLADALCYAHTFNP KVILNAATLTGAMDVALGSGA TGVFTNSSWLWNKLFEASNET GDRV*RMPLFDHYTRQVVDC QLADVNNIGKYRSAGIACTAA AFVKEFVTHRKAHLDIAGVM TNKDEVPOSTGKA*LGRPTRTL IIEFL\LRFSQDNCLVQILKNVFH SVLNWTVELKKVFE
12190	42558	A	12264	1	405	GIRSAEVGKHLAHLISRQQGR RPVTLIGFSLGARVIYFCLQEM AQEKDCQGHIEDVILLGAPVEGE AKHWSLSGRVVSGRINGYCR GDWLLSFVYRTSSVQLRVAGL QPVLLQDRRVENVDLTSVVSG
12191	42559	A	12265	1	1072	
12192	42560	A	12266	105	514	

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12193	42561	A	12267	44	872	NARPWVRGLLIEFRRRGSCLCRE RAREMEMGRRIHLELRNRTPSD VKELVLDNSRSNEGKLEGLTDE FEELEFLSTINVGLTSIANLPKL NKLKKLELSDNRVSGGLEVL EKCPNLPWHLI*GGNKIKDLSTIE PLEKLENLKS LDFNCEVTNLN DYRENVFKLLPQLTYLDGYDR DDKEAPSDAEGYVEGLDDEE EDEDEEEYDEDAQVVEDEEDE DEEEEGEEEDVSGEEEEEDEKGY NDGEVDDEEDEEELGEEERGQ KRKREPEDEGEDDD
12194	42562	A	12268	1	388	KRGAAMDGRVQLIKALLALPIR PATRRWRNPIFPETFDGDTDR LPEFIEQTGSYMFVDENTFSSDA LKTALPQSLPSIASHRQTAAPS DLDSPRRYLGWPSLSDSDS WPPPKGSVTFSETYFLPTP
12195	42563	A	12269	1	127	
12196	42564	A	12270	5	434	ISLRYLDGLAGPTHASAATEAS DRSEDLRWTVCAQLIQALLAL PIRPATRRWRNPIFPETFDGDT DRLPEFIVQTCSYMI\VDENTFS SDALKVTFLITRLTGPAL\QWVI PYIKKESPLLNDYRGFLAEMKR VFGWED\DEDF
12197	42565	A	12271	515	1137	
12198	42566	A	12272	1	762	
12199	42567	A	12273	1	468	
12200	42568	A	12274	2716	3411	KREEETKKKSKREMEVVKKKQ CTYSFKSQGKFLSTHARQFSIGS QPISASQTVEEIMKSILTLQSQI\ NSLAAVTLQNR*GLDLLTAEKG GLCTFLGEECCFYTNQSGIA*D ATQRLQEKASEIRRLSNSYTNL WSWATWLLPFLGPVAAILL AFGPRIFNLLVKFVWSRIEAIKL QMV LQIEPQMSSTNNFYRGPLD *PAGTSPGLESSLKDTTTAKPL LRPYPAGSS
12201	42569	A	12275	8312	9221	
12202	42570	A	12276	74	471	
12203	42571	A	12277	4043	4159	LFCQSGFHSLLTPSTATCSTIR* VATSRLRPVFTCRRS
12204	42572	A	12278	1	1332	
12205	42573	B	12279	29	1316	
12206	42574	A	12280	1	580	
12207	42575	A	12281	2	710	
12208	42576	A	12282	1	1559	
12209	42577	A	12283	1179	1490	

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12210	42578	A	12284	2	313	
12211	42579	A	12285	599	743	GALART*PPQQRWVSCPR/GVP/ GAL*REFTMFLSLQAENSIDFVS RELCAHSIRKLQAHVLLIK*VFI K
12212	42580	A	12286	208	398	
12213	42581	A	12287	716	1069	
12214	42582	C	12288	326	577	
12215	42583	A	12289	188	590	
12216	42584	A	12290	860	1121	VPFLTSWVNVGFKSSALHSSAL LQFWLTLWE*LPAWARCCCL PNGSFWGWPRSSRLDVAWERPV APGWREVSPLLSELWTAASGP YG
12217	42585	B	12291	1	1614	
12218	42586	B	12292	1	1080	
12219	42587	A	12293	3	219	
12220	42588	A	12294	890	1094	VESGTHLGQYKIYFGFLYQKKF SLQSHGYILFGCPQYW/ITSTDC PSIPCMWYSRTL*VTWSKKQVT SE
12221	42589	C	12295	1	3912	
12222	42590	A	12296	881	1151	
12223	42591	A	12297	1	1323	
12224	42592	A	12298	1817	2284	VWDGSILYQKLGALDGLSS*VI PLASSLQSLQYPLPSSFIQRILNT YSVKGLRSWTVNEDRVDAVSS GGIWLQVEASLVLY*MLYFSIIT LLILGLVHVNFKILDSSSELITD KLCGGLGFTLYTGSKLI*SDVTF PRAFSASTQTSMLTKYTVE
12225	42593	A	12299	1	1109	
12226	42594	A	12300	1	367	
12227	42595	A	12301	1	531	
12228	42596	C	12302	1371	1746	
12229	42597	A	12303	1	645	
12230	42598	C	12304	387	680	
12231	42599	A	12305	655	2498	
12232	42600	A	12306	1	528	ENLGNTIQDTGMGKDFMTETP KAMTTKAKIDKRDLIKLSFCT AKETTIRVNRQPTWEKIFAVY PSDKGPISRIYKQLKQIYKKKSN NPIKKWAKNRNRHFSKEDIYV AKKHMEKSSSSLVIRKMHKTT VGYHLMFVRMAIIKKSGNNRC WRGCGE\C*WEGQLVQPLWKT VWQ
12233	42601	A	12307	1	1359	

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12234	42602	A	12308	1968	2648	TQTNLQEK NKQLHQKVGKGYE QTLKRRHLCSQQTHMQPTDT WKNAAHHQLAIREMQIKTTMRY HLTPLRMAIIKKSNNNSCWRC GEIGTLLHCWWDCCLVQPLWK TVWRFLKDLESEIPDLAIPLLCI YPKDYTSFCYKDTCTCMFIAAL FTIAKTWN*PKCSSVIDWIKKM WHIY/TTMEYYGAIKRNKIMSF AGTWMKLDAILSKLTQKQKT KLRMFLLISRS
12235	42603	A	12309	1	403	
12236	42604	A	12310	3	264	FFYAHIMFIAALFTIAKTWNQS KCTSMIDWIKKMWHIHTMEY YAAIKR\RGFMSFTRTWMKLEA IILSKLTQEQKTK\HHMFSLIRGS
12237	42605	A	12311	79	432	
12238	42606	A	12312	1	933	
12239	42607	A	12313	70	675	
12240	42608	A	12314	1	339	
12241	42609	A	12315	3	422	
12242	42610	A	12316	1	471	
12243	42611	A	12317	1	963	
12244	42612	A	12318	375	542	ENDKARRSDTPSML*WVEGMK *SVKAPHTLHLASDYVLEPWG GESATFIPASWDC
12245	42613	C	12319	1	2148	
12246	42614	A	12320	1	1881	
12247	42615	B	12321	1	1074	
12248	42616	C	12322	143	439	
12249	42617	C	12323	123	362	
12250	42618	A	12324	474	603	NHKNPRRKPRQYHSGHRHGQG LHV*NTKNNGNKSQNGQMGSN
12251	42619	A	12325	5169	5756	CPSLPPPHGKPAAACPRSPGGC CTPRSARTVPRGLSENSQTKCH SADLPPEGPRVFWTPPGTGAAP APPAPAPGPARGPRRCHAWPP QRRSSGAGRSPPPRHFAEFLKM VAFLRILILRAVSLRLSLDLEIS* G*RP*GPSWGGPPQSTPSAASA ASKTSSPRRWSTPAWAFLARA HPRWVAPSTAAQCTAAP

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12252	42620	A	12326	21	98	ESWLVLGRRKAGRLIGACGFEP PHFLTLDLEMRDSCPLDCKVY VGNLGNNGNKTELERAFGYG PLRSVWVARNPPGFAFVEFEDP RDAADAVRELDGRTL\CG\CRV R\VELVRMGEK\RSRNRGPPPS\ WGRRPRDDYRR\RSPPR\RRSP R\RRSFS\RSRSRSLS*ERVGWC WAGGKREDSSERV DLSRRIF
12253	42621	A	12327	919	1043	
12254	42622	A	12328	460	657	CFSPGMWQKTHSRKHSPGAICP INPVGECLVRKIKQLD*ITWINA I*LPLRDGLFYFLNFPFCCRG
12255	42623	A	12329	1	2235	
12256	42624	A	12330	1	255	
12257	42625	A	12331	2	429	CRADLNSRIDDFVPNPSVAVSG ASYAVAAVTMAHYKAADSKR EQFRKYFEK\SGVLDLT\KVLV ALYEEPEK\NSALDFLKHHLG AATP\ENPEIELRLLEAEMKEK YEAIVEENKKLKAKLAQYEP\P QEEKRAELGFFSV
12258	42626	A	12332	670	860	
12259	42627	A	12333	2	450	VNKAGGLIYQLDSYAP/RAEAE KTFSYPLDLLLKLHDERVLVAF GQRDGI RVGHAVLAINGMDVN GRYTADGKEVLEYLGNPANYP VSIRFGRPRLTSNEKLMLASMF HS\IKFVVLADP\RQAGIDSLLRK IYEIYSDFALKNPFYSLEMP
12260	42628	A	12334	1	2034	
12261	42629	A	12335	1	324	
12262	42630	A	12336	2	694	FGTRGKAAMAFSVVYVVKAG GLIYQLDSYAPRAEAEKTFSYP LDLLLKLHDERVLVAFGQRDGI \RVGHAVLAINGMDVNGRYTA DGKEVLEYLGNPANYPVSIRFG RPRL\TSNEKLMLASMFHSLFAI G\SQLSPE\QGSSGIEMLETDTFK LHC\YQTLTGIFVVL\ADPR\Q AGIDSLLRKIYEIYSDFAL\KNPF \YSLEMPIRCELFDQNLKLALEV AEKAGTFGPGS
12263	42631	A	12337	2	1658	

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12264	42632	A	12338	3	997	VQKPNRQWRLVQDLRIINEAV VPLYQAVRNPTYLLSQIPEETG WFTVLDLKDALFCIAVHPDSQF LLAFEDPLNPTSQLTWTVLPQG FRDSPHLFGQALAQDLSQFSYL DTLVLRVYVDDLLLAAPSETLCH QATQVLLNFLATCGYKVSCLK AQICSQQVKYLGKLSKGTRAL SEERIQPILAYPHPKTRKQLRGL LGITGFCQIWIPRYSEIARPLHTL IKKTQKANTHLVRWTPEAEAA FQVLKKALTQAPVLSLPTGQDF SLYVTEKTGIALGVLTQHYGE ERNS*LPTEYLSNIRKPLGDYY WLYRNLKRWQSYTARVIRKER
12265	42633	A	12339	3	421	
12266	42634	A	12340	3	4804	KRLNIQKTLEVAFSEAVWMQ PSVVLDDLDLIAGLPAVPEHE HSPDAVQSQRALAHALNDMIKE FISMGSLVALIATSQSQSLHPL LVSAQGVHIFQCVQHIQPPNQE QRCEILCNVIKNKLDKCDINKFT DLDLQHVAKETGGFVARDFTV LVDRAIHSRLSRQSISTREKLVL TTLDFQKALRGFLPASLRSVNL HKPRDLGWDKIGGLHEVRQIL MDTIQLPAKYPELFANLPIRQRT GILLYGPPGTGKTL
12267	42635	A	12341	1	2223	
12268	42636	A	12342	1	3864	MQWEEAEKDPGSCVFRPPV ALVFPLHSKWTLVNSPPSSGDP YVGRPAQSQQLSLSPAPPYVL PGPGKIKQAGNNPSLTSIYRSEV FCAHRHLHPPQLVCARGHIGSA HLSVDRGSLIWEVLESTVWART NEWSPVTRTVLISALASTHIPQP CESRPPVPPEYEVTVLRSQGT QLPPWSSSTSWRLTDPSCPKHA AWLTDLASSKGPAAGGTGSFS QPGTLTSTRTNPLKKEKSPEDL KQIKIDLKGFSDN

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12269	42637	A	12343	204	963	DCACTFHCRSATKIVKDLKAQ GLVKPCNSPCSTPILGVQKPNG QWRLVQDLRIIDEVVVYVDDL LLAARSKTLCHQATQALLNFLI TCDYKVSKPKAQLCSQKVLYL GLKLSKGTRVLSEERIQPIPAYP HPKTPKQLRGFLGITGFCRIWIP RYSEIARPLYTLIKKTQKADTH LVEWTPAEVAFQALKEALTQ APVLSLPMGQDVPLYVTEKTI ALGVLGVLTQVRG/LSLQPMAY LSKEMDVVAKGWPH
12270	42638	A	12344	1	1178	MPESPTLLGRDILAKAGAIHL NIGEGTPVCCPLLKEGINPEVW ATEGQYGRAKNAHPVQVKLK DSASFPYQRQYPLRPEAQQGLQ KIVKDLKVQGLVKTCNSPCDTP ILGVQKPNGQWRLVQDLRIIDE AIVPLYPAVPNPYTLLSQIPEEA ELFTVLDLKDAFFCIPVHPESQF LFAFEDPSIPMSQLTWTVLPPQ FRDSPHLFHHTLAQDLSQFSYL DTLVLCPLRNQQECHQATQV LLNVLATCGYKVSKQKAQLCS QQVKYLGVKLSKGTRAL/QQ*R TDRT*LSTSNCSNLRHSRGPSRG SLD*SQQLVY*WKFFCRKRTS KRGVCSGQ**WNT*KKSPHSRN *CSAGGTNSPPSGTRIRRRKKGL IRIYMLPLILSAPYDHLH
12271	42639	A	12345	1	841	
12272	42640	A	12346	3	1428	
12273	42641	A	12347	2	268	
12274	42642	A	12348	1	897	
12275	42643	B	12349	1	1650	
12276	42644	A	12350	232	1002	TPGSTVHAPEADQGLQKIVKDL KAQGLVKPCNSPCSTPILGVQK PNGQWRLVQDLRIIDEVVVYV DDL LLAARSKTLCHQATQALL NFLITCDYKVSKPKAQLCSQKV LYLGLKLSKGTRVLSEERIQPI AYPHKTPKQLRGFLGITGFCRI WIPRYSEIARPLYTLIKKTQKAD THLVEWTPAEVAFQALKEAL TQAPVLSLPMGQDVPLYVTEK TGIALGVLGVLTQVRG/LSLQP MAYLSKEMDVVAKGWPH
12277	42645	A	12351	1	2217	

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12278	42646	A	12352	1	6530	MWGSDDLRLAGAGGGGA AVTVA FTNARD CFLHLPRLVAQLHLL QNQAIEVVWSHQPAFLSWVEG RHFSDQGENVAEINRQVGQKL GLSNGGQELHAVSLEQHLLDQI RIVFPKAIFFVWVDQQT YIFIQI VALIPAASYGRLETDTKLLIQPK TRRAKENTFSKADA EYKKLHS YGRDQKGMMKELQTKQLQSN TVGITESNENESEIPVDSSSVAS LWTMIGSIFS FQSEKKQETSWG LTEINAFKNMQSKVVPL
12279	42647	A	12353	1734	4349	MPNRACFQCGLQGHFKKDCPS RKPQVCLTIESQEVNCLLDAGA AFSVLLSCPGQLSSRSVTIRGVL GQPVTRYFFQPLSCDWGALPFS HAFLIMPESLTPLLEILVKAG AIIHLNIGEGTPICRLLFEEGISPE VWATEGQYGQAKNAHFVQVK LKDSTSPFYQRQYPLRPEAQQR LQKIVKDLKAQGLVKPYSSPCN TPILGVQKPKRQWRLVQDLRII NEAVFPLYPAIPSPYTLLSQIPEE AEWFTVLDLKD AFFCIPVHPDS QFLFAFEDPSNPTSQLTWTVLP QGFRDSPHLFGQALAQDLSQFS YLDTPVLQCMDDLLAARSET LCHQATQALLNFLTTCGYKVS KPKAQLCSQQVKCLGLKLSKV TRALSEERIQPILAYPYPKTLKQ LRGFLGITGFCRIWIPRYGKIAR PLYTLIKETQKANTHLVRWTPE AEAAFHALKKALMQAPVLSLL TGQDFSSYVTKNKQTKKKKAT* IALRVLALV*GTS LQPVAYL/SK EIDVVAKGQPHCLRVVAVAV LVSEAVKIIQGRNLTVWTS HDV NGILTAKGDLWLSDNHLLKYQ ALLLEGPMRLRLCTCAALNLDTF LPHNEEKIEHNCQQVIAQTYAT RGDHLEVPLTDPNPNLYTDGRS FVEKGLQKVG YAVVSDNGILES NPLTPGTSAQLAKLTRAELGE GKRVNIYTDSKYAYLVLHAHA
12280	42648	A	12354	5	138	
12281	42649	A	12355	1	909	
12282	42650	A	12356	3	245	
12283	42651	A	12357	1	1080	

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12284	42652	A	12358	3	955	VPRKSVHSGDAEYHKVLKEEA SDSRENKVGTTWLQILSGSFAS RVTEHITQPLQESVSLWISSEQN IPPKFMGRNLNKLKATYKRKYS AAKSKVEKKKKEKVFATVTKP VGVDKNGGT\RVVQTR\KLPR YHPTEDVPRKIVEPPQKNLFSQ HVRKTAKTALPPGTILILTG\RH RGK\RVVFLK\QLASGLILVTAP LVLNRVPLRRTHQKFVIATSTKI DISNVKIP\KKKKDKTPLLTDAYL \KKKKLRLKPR\HPRKGEIFDTVK RGNMRJTE\QRTIDQKA VDSQIL PKIKAIPQA/LQGYLRILCLL*RN GIYPHKL VF
12285	42653	A	12359	1	555	
12286	42654	A	12360	1	300	
12287	42655	A	12361	1	588	
12288	42656	A	12362	1	264	
12289	42657	A	12363	1	870	
12290	42658	C	12364	239	400	
12291	42659	A	12365	9	98	SWKPSFSAN*HRNRKPNTTCSH SQVGVDL
12292	42660	A	12366	9	81	
12293	42661	A	12367	3	169	
12294	42662	A	12368	134	481	GCCGGTIKNSFSFPPLPNWPRFV MFPSLCVLIVETCETWICTLIVQ LPLMSENMRCLIFCSCVSLLRM MVSSFVHVHDHKVKSHSRPS/G NLRKSKEASPSPKTSKVGKLT VQ PSVCG
12295	42663	A	12369	41	388	SYGQMMKCQPFTFSPGYGAG VFSSDKIGQMTFMERT*RMCK EAAQDHTAREKEKVELKFPSLP FRRKELL*PCTWLGSPISLVTL D FPWPQGSGRLSMPVLWTCLIPG SLEIG
12296	42664	B	12370	1	909	
12297	42665	C	12371	295	2025	
12298	42666	A	12372	14	260	
12299	42667	A	12373	1	142	TCTCVFIAALFTIAKTWN*SKCP SMRDWIKKNVAHTHHGILCSH KKE
12300	42668	A	12374	1	395	

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12301	42669	A	12375	2	976	REHLAEGMAVGTASADLNISA CWLRRQQISQHSARALLRDRL PPQENSSWHPAGAPLGRNFQRK EQAAIFAVLQPPLVIPRKTGSGV DLEQTPADLQKRGLTVTRKTN KQKAIASSTERTPTQKPPFKSH QHQRPNVDKSAKMRKNQSKK AENSKNQNTSSPPKDHNSPAR EQNWMENEFDELTEVGFRRW VITNSSELKKHVLTQCKEAKNL EKRDMDDEAGNHHSQQTNTGTE NQTPHVLTHKWELNNENTRTRI YKKHGAACLASGIYHSVDLPF WGLDLPFDLEDGSGSTILGSGG QWPSSHSSTRQCTSVDSVWGL
12302	42670	B	12376	1	111	
12303	42671	A	12377	34	346	
12304	42672	A	12378	1	585	
12305	42673	A	12379	3	14703	
12306	42674	A	12380	1	636	
12307	42675	A	12381	1	1626	
12308	42676	A	12382	1	3246	
12309	42677	C	12383	62	202	
12310	42678	A	12384	1	286	
12311	42679	A	12386	1	1176	
12312	42680	C	12387	1	942	
12313	42681	A	12388	785	892	
12314	42682	A	12389	2	91	
12315	42683	A	12390	1	708	
12316	42684	A	12391	3	96	TWMKLETIILSKL*QRQKTKHR MFLFIGGN
12317	42685	B	12392	1	1954	
12318	42686	A	12393	1550	1830	DTISHQLEWQSLKSQETTALLTI AKTWNQPKCPSMIGWIKKMW HIYTMEYYAAIK/SDEFMCFAW TWMKLETIILSKLSQEHKTKHH MFSLTSGS
12319	42687	A	12394	3	553	
12320	42688	A	12395	1	1428	
12321	42689	A	12396	642	753	
12322	42690	B	12397	1	759	
12323	42691	B	12398	1	900	
12324	42692	A	12399	623	775	
12325	42693	A	12400	992	1156	
12326	42694	A	12401	86	349	

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12327	42695	A	12402	1	2521	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGMQGWFNIRKSI NIVQHINRTNDKNHMIISIDAEK AFDKIQQRFMLKTLNKLIGDGT YLKIIIRAIYDKSTANIVLNGQKL EAFPLKTGTROGCPLSPLLFNIV LEVLARAJRQEKEIKGIQLRKEE IKLSLFADDMIVHLENPIVSAQN LLKLIDNFSKVSQYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SERIKYLGILQTRDVKDLFKEN YKPLLNDIKEDTNKWKNTPRS WVGRINIMKMAILPKVIYRFNA IPIKLPMFTFFTELEKTTLKFIWN QKGARIAKSILYRFNAQELEKT TLKFIWNQKGARIAKSILSQKN KAGGITLPDFKLYKATVIKTA WYWYQNRDIDQWNRTEPSEIM PHIYNHLIFDKPDKNKKWGND LFNKWCWENWLAICRKLKLD FLIPYTKINSRWIKDLNVRPKTI KTLEENLGNTIQDIAMGKDFMS KTPKAMATKAKIDKWDLINLK SFCTAKETTIRVNRQPIEWKIF AIYSSDKGRISRIYNELKQIYKK KTNNPIKKWAKDMNRHFSKED IYAAKRHMKKCSSSLAIREMHI KTTMRHHLTSVRMAIHKKLG DWCWRGCGEIGRLLHCWWDC KLVQPLWKSVMRFLRDLELET PFDPASPLLGIIYQKE\YKSCYYK DICT/RVCVPAALFTIANTWNQP
12328	42696	B	12403	80	5612	
12329	42697	B	12404	68	505	
12330	42698	A	12405	1	471	
12331	42699	A	12406	194	430	IAIMRLLLQISIIILSSCLREVKSM QAYRKALRKLKLADVKRYQKS LVVQKRS*ER*SLVLILPARTF QSYLAPIC
12332	42700	A	12407	1	546	
12333	42701	A	12408	2	418	
12334	42702	A	12409	302	746	ETSHQVMDRSNPVKPALDYFS NRLVNYQISVKCSNQFKLEVCL LNAENKVVDNQAGTQGQLKV LGANLWWPYLMHEHPAYLYS WEDGDCFTPKALDPLPACDLC DQLHLRSRQGGSVCGCDPCEQ LLLLVSQLQAPAISSAAAGRPV
12335	42703	A	12410	83	552	
12336	42704	A	12411	1	459	
12337	42705	A	12412	34	588	

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12338	42706	A	12413	1	466	
12339	42707	A	12414	950	1230	CSWHDRFPDWKAGRILPISEPPS NRIFACWGKPAWTACCN/FSQG QAVKGNQLLPVSLVKRKTTLA PNTQTASPRALADSLMQLARQ VSRLESGQDFADFGTTIKQDFR LLGQTSVDRLLQLSQGQAVKG NQLLPVSLVKRKTTLAPNTQTA SPRALADSLMQLARQVSRLESG QDFADFGTTIKQDFRLLGQTSV DRLLQLSQGQAVKGNQLLPVS LVKRKTTLAPNTQTASPRALAD SLMQLARQVSRLESGQDFADF GTTIKQDFRLLGQTSVDRLLQL SQGQAVKGNQLLPVSLVKRKT TLAPNTQTASPRALADSLMQLA RQVSRLESGQ
12340	42708	A	12415	497	847	
12341	42709	A	12416	1	337	MGVVPEELFLEELNLSGLKWD FADFGTTIKQDFRLLGQTSVDR LLQLSQGQAVKGNQLLPVSLV KRKTTLAPNTQTASPRALADS LMQLARQVSRLESGQHPEFAPP SHGD
12342	42710	A	12417	716	961	
12343	42711	A	12418	1	1218	
12344	42712	A	12419	1	1104	
12345	42713	A	12420	548	1078	
12346	42714	B	12421	83	345	
12347	42715	A	12422	1	681	
12348	42716	A	12423	1	1431	
12349	42717	A	12424	566	871	
12350	42718	A	12425	145	980	
12351	42719	A	12426	2	702	
12352	42720	B	12427	1	1156	
12353	42721	A	12428	188	584	
12354	42722	A	12429	1	1194	

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12355	42723	A	12430	170	1855	LLEGKLTNRKDIPHQNPICTSPS SKTKGILPISEPPSNRIFACWGK PAWTACCN/FSQGGQAVKGNQL LPVSLVKRKTTLAPNTQTASPR ALADSLMQLARQVSRLESGQD FADFGTTIKQDFRLLGQTSVDR LLQLSQGGQAVKGNQLLPVSLV KRKTTLAPNTQTASPRALADSL MQLARQVSRLESGQINHTPNSF HIGAGGSWCLSESPCVVLYNYK YPLVCGYTDGNAEVSKFGNFFL DLSRTRCLAEGNYTSGDNHTLR DPHYVEDKGHKYLVFEANTGT ENGYQGEESLFNKAYYGGGTN FFRKESQKLQQSAKKRDAELA NGALGIIELNNDYTLKKVMKPL ITSNTVTDEIERANVFKMNGKW YLFTDSRGSKMTIDGINSNDIY MLGYVSNSLTGPKPLNKTGL VLQMGLDPNDVTFYSHFAVP QAKGNNVVITSYMTNRGFED KKATFAPSFLMNIKGNKTSVVK NSIRREGFCFRNHHQTGFSPA GANQRGPLAATLSGPGGEGQS AVARLTGEKKNHPGAQYANRL SPRVGRFINAAGTTGFPTGKRA GFCFRNHHQTGFSPAGANQR GPLAATLSGPGGEGQSAVARLT GEKKNHPGAQYANRLSPRVGR FINAAGTTGFPTGKRAV
12356	42724	A	12431	851	2237	
12357	42725	A	12432	2	2346	
12358	42726	B	12433	329	479	
12359	42727	B	12434	656	2404	
12360	42728	B	12435	486	834	
12361	42729	A	12436	1	693	
12362	42730	A	12437	1	114	
12363	42731	A	12438	152	391	AGGWALPSLGLPSWTSRCPWR RGSAGLLLEASVPVQQ*PKLLD RLSRRWPGEHPRPARVRSCM ALGPRRLGVLCQEPS
12364	42732	A	12439	1	1707	
12365	42733	A	12440	1	897	
12366	42734	A	12441	36	420	
12367	42735	A	12442	2	217	
12368	42736	A	12443	1	903	
12369	42737	A	12444	1	1626	
12370	42738	B	12445	107	757	

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12371	42739	A	12446	1	1655	MGTVPRSAGQETWVLCEHIIGG ERSFTEYSLCHRIESSTSSIKLEL GGNNVEPLESSRVFDSTVQNEE ADAVSTGEEGVTHEGTQGGKV IPQMHHMGSGLQPKSFSQNRSQV NNDMIVTDNNGAVKFPQLCKF CDVRFSTCDNQKSCMSNCSITSI CEKPQEVCAVVCWMSEEICTN VMYSPLPCKFLHLSPIEVLPIIRS PVNQSGRCKIRHIGSNRLQRS TCQNTGWESAHVMKTPGFREY NTSNPDLLLVIQVVTGISLLPPL GVAISVIIIIFYCYRVNRQQLSS TWETGKTRKLMEFSEHCAIILE DDRSDISSTCANNINHNTPELLPI ELDTLVGKGRFAEVYKAKLKQ NTSEQF*DSGQFKILFPIEYAS WKTEKDIFSDINLKHENILQFLT AEERKTELKGQYWLITAFHAK GNLQEYLTRHVISWEDLRKLGSL SLARGIAHLHSDHTPCGRPKMP IVHRDLKSSNILVKNDLTCCCLC DFGLSLRLDPTLSVDDLANSQG CYEVCSSGRFLVTIFKGNRLRE RTEKNTRITPRDWVYEWLW
12372	42740	A	12447	1555	3277	RAAGSAMGRGLLRGLWPLHIV LWTRIASTIPPHVQKSVNNDMI VTDNNGAVKFPQLCKFCVRF STCDNQKSCMSNCSITSICEKPQ EVCVAVWRKNDENITLETVCH DPKLPYHDFILEDAAAPKCMK EKKKPGETFFMCSCSSDECNDN IIFSEEYNTSNPDLLLVIQVVTGI SLLPPLGVAISVIIIIFYCYRVNRQ QKLSSTWETGKTRKLMEFSEH CAIILEDSDISSTCANNINHNT PELLPIELDTLVGKGRFAEVYK AKLKQNTSEQFETVAVKIFPYE EYASWKTEKDIFSDINLKHENIL QFLTAEERKTELKGQYWLITAF HAKGNLQEYLTRHVISWEDLR KLGSSLARGIAHLHSDHTPCGR PKMPIVHRDLNSSNILVKNDLT CCLCDFGLSLRLDPTLSVDDLA NSGQVGTAARYMAPEVLESRMN LENAESFKHTDVYSMALVLWE MTSRCNALGEVKDYEPFPGSK VREHPCVESMKDNVLRDRGR EIPSWLNLHQGIQMVCELTTEC CDHDPYARLTAQCVAERFSELE HLDRLSGRSCSEEKIPEDGSLNT

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12373	42741	A	12448	3	1354	
12374	42742	A	12449	1	168	
12375	42743	A	12450	2	147	
12376	42744	A	12451	3	523	LQFFRRSEVKMKNHLLFWGVL AVFIKAVHVKAQEDERIVLVDN KCKCARITSRIIRSEDPNEDIVE RNIRIVVPLNNRENISDPTSP\LR TRFVY\HLSDLCKK\CDPTEVEL\ DNQIVTAT\QSNICGWMTPVQS TCYTLSTGNKCYTAVVPL\VYG GETKMOVETALTPDACYPD
12377	42745	A	12452	3	274	
12378	42746	A	12453	1	120	
12379	42747	A	12454	119	461	PVPQDLQA AVLGRTTALFK\AV KTGTLQVCKRLLLSFVCL/CPA PRGRQASLSCGGLHPVRASWLL CLPKQAWAMAGAPPPAWLPPC SLISDCCASNQRDSVGVVPSEPG VGYSLV
12380	42748	A	12455	2	370	
12381	42749	A	12456	1	3135	
12382	42750	A	12457	1	942	
12383	42751	A	12458	1	462	
12384	42752	A	12459	1	297	
12385	42753	A	12460	935	1338	CTDGFLVWMSFLFVSFPLPPCS LISDCSASNERDSVGVGPSEPG AGYNLVVRRFLSPSEKRSIRV* VTRFSRCRPSPLSLTRKGNSLTP CASQVRQCLALFRLAHGVRTH SPAPTVWHSLPKVGPFLNSVP
12386	42754	A	12461	1	268	
12387	42755	A	12462	3	479	
12388	42756	A	12463	1	262	
12389	42757	A	12464	1	304	MAGAPAPASLPPCSLISDCCAS NQRDSMGVGPSEPGAGYNLVP VIEKRSIRVGVTGFSRCCPSPLSL TRKGNSLTPWASQVRQCLALL QLAHGRGSPNRP
12390	42758	A	12465	1	512	
12391	42759	B	12466	1	1257	
12392	42760	A	12467	1	705	
12393	42761	A	12468	1	3039	
12394	42762	B	12469	66	467	
12395	42763	C	12470	360	747	

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12396	42764	A	12471	3771	4703	SFQFFCSVFSPSLWFYLLLVFDD GDVQMRFRGCGPCFLLVFLITD RTLSCRSVGIPCRVRCQCALLG GASQLGCSGVKGSRDPLEEAV CPFS\DL\QLRAGGNTALFKAVR QGHLSLQRLLSFVCLCPAPRG GAYRGGQASLSCGGLHPV*AS\ RLLCLPKQAWAMAGAPPPASL L\PCILISDCCASNQRDSVGVP S/ERPGVGYSLVVRRFLSRSEKR NIRGGVTRFSRCRPSPLSLTRK GNSLTPCASQSEGNAIGPAFGF AHGARTHVALRPTVWHSICE MNPVPQMEMQKSPVFCVAHA GGCRPEL
12397	42765	A	12472	1	1038	
12398	42766	A	12473	27	428	LADRSAIPGFAIFAVTFLLALVG AVLYLYPWTLKPC*SHY*GIN LVVAV*VKTT*GKNCKMKV*L IL*RVTLPS*RFGLRLEKAF*M GHLIKT*LGKNNMKMPSCNWS LF*GTS*KNEKEGTSVNIFSLTP
12399	42767	A	12474	107	362	NKPCEEFYFLAALIYLLYHGRK KADTKIPP*ISRFFLILYPSHELT FIVIHIMCDLGCTWAICFLTSE EVQKKLYEEINQVFG
12400	42768	A	12475	193	637	TSSEVVKKQIAQVHNFAVIMQL ARENIILSS/EDLLVIKVPLY*GV NENMLTEVPSFSFFYDVP*NRL QLHEGIFILFFPSHVFIK*PI*KAF SNLRPNCAMILLEANDFLIFKC TTHYHLCNRLHSKTKHMLAEG HVLGLWVGEPFI
12401	42769	A	12476	1	1930	
12402	42770	A	12477	1	362	
12403	42771	A	12478	58	160	GVSLQSTSEEGRGMRQE*TERE IKVTCTSHYRLA
12404	42772	A	12479	3	410	
12405	42773	A	12480	1	807	
12406	42774	A	12481	154	375	
12407	42775	A	12482	2	512	
12408	42776	C	12483	29	455	
12409	42777	A	12484	209	433	
12410	42778	A	12485	1	1546	
12411	42779	A	12486	3	931	
12412	42780	A	12487	1	363	
12413	42781	A	12488	1	351	
12414	42782	B	12489	82	263	
12415	42783	A	12490	1	1878	
12416	42784	A	12491	24	242	
12417	42785	A	12492	1	3558	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
12418	42786	A	12493	2	478	HNSLKSDENKENSFSADHVTTA VEKSKESQVTADDLEEEKAKA ELIMDDDRVTVDPLLSKSQSILIS TSATASSKKTIEDRNIKNKKSTN NRASSASARLMTSEFLKKSSSK RRTPTTTTSSHVLGTLKVLDQK PFTETEA*EPDRADNIRGSCLFR
12419	42787	A	12494	1	1047	
12420	42788	A	12495	1	1055	
12421	42789	A	12496	212	611	
12422	42790	A	12497	2	195	YVMGRNDGGYLMIDSKTAEIK FVKNMNRDSTFIVNKTITAEVL AID\RYSGKNCLLISWSYICG
12423	42791	A	12498	1	429	
12424	42792	A	12499	1	503	
12425	42793	A	12500	3	825	GTTKWQTVRRQKREWIKFAAA CREGEDNSKRNPiAK*SDLQNS LLPALY*KH\IRSDCESNQKITY RISGVGIDRPPYGVFTINPRTGEI NITSVVDREITPLFLIYCRALNS RGEDLERPLELRVKVMDINDN APVFSQSVYTASIEENS DANTL VVKLCATDADEENHLNSKIAY KIVSQEPSGAPMFILNRYTGEV CTMSSFLDREQHSMYNLVVRG SDRDGAADGLSSECDRIKVLD VNDNFPT/FRENFKQNSSRFSNS LLSSFDQWRKL
12426	42794	A	12501	986	4030	KQRLTWTFS PGKSETMMGLFP RTTGALAI FVVVILVHGELRIET KGQYDEEEMTMQQA KRRQKR EWWKFAKPCREGEDNSKRNPiA KITSDYQATQKITYRISGVGIDQ PPFGIFVVDKNTGDINITAIVDR EETPSFLITCRALNAQGLDVEKP LILTVKILDINDNPPVFSQQIFM GEIEENSASNSLV MILNATDAD EPNHLNSKIAFKIVSQEPAGTPM FLLSRNTGEVRTLTNSLDREQA SSYRLVVSGA
12427	42795	B	12502	1	3572	
12428	42796	A	12503	1	594	
12429	42797	A	12504	1	612	
12430	42798	B	12505	200	532	
12431	42799	A	12506	2	735	
12432	42800	A	12507	5	400	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
12433	42801	A	12508	2	1260	GQAASPASPASPAMAWAA LLGLLVALLLLLLSRRRTRRP GEPPLDLGSIPWLGALDFGKD AASFLTRMKEKHGDIFTILVGG RYVTVLLDPHSYDAVVWEPT RLDFHAYAIFLMERIFDVQLPH YSPSDEKARMKLTLLHRELQAL TEAMYTNLHAVLLGDATEAGS GWHMGLLDF/CLQLPAQSRLP DSLNRN*GAATHP*KPGPGPRPLS *CLPHLSPARPAAPQTGPWLPV SGGQGPVHVQCQKSPVEAAIPSQ AGQAGPPEQMAGELPAAPGGD GCVRGDAGTGPAAAVGHTGE YGSRCLLAPALPSQES*SPGCCP RRAREYPLASGAACLADDSPT EGSRQHTC/DLIAC*VRASGLQL PPSSPARLAGGPGHAHGRRERI PATW*PPPPLPLPEPPERPRNLH RPRGI
12434	42802	A	12509	3	466	
12435	42803	A	12510	1	1134	
12436	42804	A	12511	2	1211	
12437	42805	A	12512	2	405	HEMLLASEIKHLPRRLIGQERE TQTSELKIKRRGNEEAPS/PPPSS AYERGTRPDDRYDTPTSKKK VRIKDRNKLSTEERRKLFEQEV AQREAAKQQQQMQNLGMTSP LPYDSLGYNAPHHPFAGYPPGY PMQA
12438	42806	A	12513	191	898	
12439	42807	A	12514	1	270	
12440	42808	A	12515	2	1328	
12441	42809	A	12516	1	2868	
12442	42810	A	12517	1	1254	
12443	42811	A	12518	1	576	

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12444	42812	A	12519	1919	3044	HQGPSTPPSWAMSGPPTPLSRE DWHQGPSTPPSWAMSEPPT/SSI QGLASGAVHTILLGDVRATYTS IQGVTSQVSQVSRAAQMVPSS RILQLSKPKAPATLLEWDPVP KPKPHVSDHNRLHLAKVPRK EGSGKKVGAFPEIKGPEAFRDK ARAMESQSNMMPFDELLALYG YEASDPISDRESEGGDVPNLP DMTLDKEQIAKDLLSGEEEEET QSSADDLTPSVTSHEASDLFPN RSGCLLAGEAESSRGLLPRAQP VPRGAGLADNSRGALLRAHGT VRVGTTATVKPADAPPESPRDR RSRNDSHRPTGPSESERQPQSN QPTLLLRGHGTIRVRTTATVKP ADAPAESPRDRSRNDSHGQSS
12445	42813	A	12520	413	1412	
12446	42814	A	12521	293	412	NHLSVAGNGSSPCGL*AGALGL LLWLLASSGHRVLSGMI
12447	42815	A	12522	2	181	
12448	42816	A	12523	1	277	
12449	42817	A	12524	1	739	
12450	42818	A	12525	1	326	
12451	42819	A	12526	3	566	
12452	42820	A	12527	1	465	
12453	42821	A	12528	1	1167	
12454	42822	A	12529	260	395	EVATATPTLSNHYPDQSAAIN/D QG*PLHQKQDHILQKAQMNISI F
12455	42823	A	12530	209	958	FRCVLISFWSHKLHLWYHEGRI VPSDRIVPPHGIVSSHGVALPQR ILMRQFTLLEGLNKDGRFLIQLS GTAPWSSYFNSVAKFGVIHRIH SFFLSHNGHKA VAPLDLLSNVG GSCLCGDASSFTTPSRITMTSK SWLARSVAEMSyr/WTALVNH VADDQRGHQKNVIALDWVINR NVQLVNRNHLPRCSCFLDHLD AHRGTNDHAFPQVTHSEHEAQ LAISDGNHSMMAAENQSFCSVS LSCFHENAA
12456	42824	A	12531	1	1965	
12457	42825	C	12532	520	684	

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12458	42826	A	12533	701	1307	GRHLTTNHTAAVVVFPFRPLCS SFFRYSGFRGVAGATASGRGQG PAG*DNCQRAWRGAFYKFQAT LSAGAGTRAEEGSDGDGEAAE PGAGTAREPARLRGYRSRRFVL DGRRCCLCYFKNPHDPLPLGHL DIAEACFSYQRADEAAEQPAHF QVRSAGAATVLEVGTALRGV HLLRAHRGIWAQAWSPVSFLQ AVLPAWLL
12459	42827	A	12534	1	1356	
12460	42828	B	12535	1	1449	
12461	42829	A	12536	3	2449	
12462	42830	A	12537	1	3327	
12463	42831	A	12538	1	1359	
12464	42832	A	12539	1	672	
12465	42833	A	12540	1	1281	
12466	42834	A	12541	1	399	
12467	42835	A	12542	1	399	
12468	42836	A	12543	171	426	PVSCATGEEEDNVLPKGGDLP R**PGKLWCEFHASSISQALGQ HPRRSVLDTDQSHVPLVRRKTT CFSQRAMISPDDPSQEAGALS RNNLLAPYSALTFMENGNCLL QLFQLGKLLVQASHLHGQLLV FVQKIIISM
12469	42837	A	12544	1	988	
12470	42838	A	12545	3	129	LFHPCQDSQQHH*CVCCRLTGH GAA*VHGPCQAVQTYRASH
12471	42839	C	12546	532	1101	
12472	42840	A	12547	197	355	
12473	42841	A	12548	1	1275	
12474	42842	A	12549	3	131	

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12475	42843	A	12550	1746	3504	ESDPSNSTTSM DRTLL/MSSIVP RLPSACRILPTGFTIPE*SCVHRT ASLIPPLPPGSRKYSPLPLNSLI FLKN/SAYTAVPALQTDWATSP ISLHLRTSFNSPHLYPPEELIYFL DRSSKTSPDISHQQAALLRTY LKNLSPYINSTPPIFGPLTTQTTI PVAAPLCISWQRPTGIPLGNLSP SRCSTLHLRSPTTNINETIGAF QLHITDKPSINTDKLKNISSNYC LGRHLPCLSLHPWLSSPCSSDSP PRPSSCLLIPSPENNSERLLVDT RRFLIHENRTFPSTQLPHQSPL QPLTAAALAGSLGVVWQDTPF STPSHLFTLHLQFCLAQGLFFLC GSSTYMCLPANWTGTCTLVFL TPKIQFANGTEELPVPLMTPTQ QKRVIPLIPLMVGLGLSASTVA LGTGIAGISTVM TFRSLSNDFS ASITDISQTL SVLQAQVDSLAA VVLQGQLRGLDLLTAKEGGLCI FLNECCFYLNQSGLVYDNIKK LKDRAQKLANQASNYAESPWA LSNWMSWVLPVSPLIPIFLLLL FGPCIFRLVSQFIQNRIQAITNHS IRQMFLLTSPQYHPLPQDLPSA
12476	42844	A	12551	2	394	
12477	42845	A	12552	1	882	
12478	42846	A	12553	45	409	
12479	42847	A	12554	1	1035	
12480	42848	A	12555	118	312	
12481	42849	A	12556	1	1083	
12482	42850	B	12557	1	1122	
12483	42851	A	12558	97	439	
12484	42852	A	12559	1	450	
12485	42853	A	12560	1	471	

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12486	42854	A	12561	2	1407	WGKNRAEKLETLKSRVPLLLQ RNAVPHQQWNKAGRRMTLTS* EKKASDD/PNYSKLQEEIQTG KEVKHFEKNLDECITRITNREK CLKELMELKAKARELREECRSL RSQCDQLEERVSVMEEIQTIRE YYKHL YENKLQNLEEMDKFLD TYTLRRLNQEEVESLNRPTGSE IVAIINSLPTKKSPGPDGFTAKF YQRYKEELIPFLKLQFSIEKEGI LPNSFYEASIIIPKQGRDTTKK ENFRPIFLMNINAKILNKILANRI QQHIKKLIHHDQVGFIPIGMQG WFNICKSRNVIHHINRTKDKNH MIISIDAEKAFDKIQPFMLKTL NKLGI DETYLKIIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNIVLEVLAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLFELISNFSKVS GYKINVQISQAFLYTNYRQSAKS
12487	42855	A	12562	1	846	
12488	42856	A	12563	1	1281	
12489	42857	B	12564	1	274	
12490	42858	B	12565	1	2265	
12491	42859	A	12566	1	2742	
12492	42860	A	12567	1	1272	

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12493	42861	A	12568	222	2130	RKKNKKK*TKPPRNMGLREKT KSMSDWCT*K*RGewnQV/AK TLCRILSRRT/YPNLARQADIQI EIQRTPQRYSSRRATPKHIIVRF TKVEMKEKMLRAAREKGRVT HKGKPIRLTADLSAETLQARRE WGQIFNILKEKNFQPRISYPACL SFISEGEIKPFTDKQMLRDFVTT RPALKELLKEVLNMERNNRKK LNRPIITGSEIVAIINSLPTKKSPG PDGFTAIFYQRYKEELVPFLK LFQSKEKEGIHPNSFDEASIIIP KAGRDTTTKDNFRPISLMNIDA KILNKILANQIQHHKLIHHDQ VGFIPGMQGWFNICQSINVIQHI NRTKDKNHVIISIDAEKAFDKIQ QRFMLKTLNKLIDRMYLKIIR AIYDKPTANIILNGQKLEAFPLK MGTRQGCPLSPLLFNIVLEVLA RAIRQEKEIKHIQLGKKEVILSL FADDMIVYLENSIVSAQNLLKLI SNFSKVSGYKINVQKSHAFLLHT NNRQTESQIMSELPFTIASKRIK YLGILTKDVKDLFKENYKPLL NEIKEDTKKWKHIPC SWVGRIN IVKMAILPKVIYRFNAIPIKLPM TFFTELEKTTLKFIWNQKRAHT AKSILSQKNKAGGITLPDFQLY CKATVTKTAWY
12494	42862	A	12569	1	474	
12495	42863	A	12570	1	1197	
12496	42864	A	12571	1	1518	
12497	42865	A	12572	1	3189	
12498	42866	A	12573	1	2199	
12499	42867	A	12574	3	2820	ENKDTTYQNL\WDAFKAVCRG KFIALNAHKKRQERSKIDTLTS QLKELEKQEQTTHSKASRRQEIT KIRAELEIETQKSLQKINESRS WFFERINNIDRPLARLIKKKREK NQIDTIKNDKGDITDPTEIQTITI REYYKHLIYANKLKNLEEMDKF LDYITLPRLNQEEVESLNRPIITG SEIVTIINSLPTKKSPGPDGFTAE FYQRYKEELVPFLKLFQSIEKE GILPNSFYEASIIIPKPGRDITK KENFR
12500	42868	B	12575	1	1593	

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12501	42869	A	12576	1	3549	MGDFNTPLSTLDRSRRQKVNK DTQELNSALHQVDLIDYRTLH HKSTEYTFPSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRKLNLTQNRSTTWKLN NLLLNDYWIHNKMKAEIKMFF ETNKNKDTTYQNLWDAFKAV CRGKFIALNAHKRKQERSKIDT LTSQLEKEKQEQTTHSKASRRQ EVTKIRAELEKETQKTLQKINE SRSWFFERINKIDRMLARLIKK KREKNQIDTIKNDK
12502	42870	A	12577	1	2724	
12503	42871	A	12578	1	3567	
12504	42872	B	12579	709	2064	
12505	42873	A	12580	1	3370	
12506	42874	A	12581	1	2024	MGFYHVGQAGTELLTSNDPLT SASQSARITGKALQKPTEVPVP YEKMLQDQSALIVQGLPEGVA FKHPENYDLATLKWILENTAGI SFIINSATIEPPAAQPMSTHMG HSLCVLVVETHAKPVAVQSSSF TRNPEVISLEVAAVTVKEESED PDYDYITFKDLPGLAYETKAYV LWPQLSKICKSKNGDKNKAYRG QQCRLRQQNPLAALTGKISVSV YVSHPSLRVSIGWTRQVARQT MQKDRDGPLKNEGEKNCAGSE KNTLTSQLEKEKQEQTTHSKAS RRQEITKIRAELEKETQKTVEK INESRSWFFERINKIDRPLARLIK KKREKNQVDAIKNDKGDITDP TEIQTTIREYYKHLVANKLENV EEMDKFLDTYTLPRLNQEEVES LNRPTGSEIVAIINSLPTKKSPG PDGFTAIFYQRYKEELVPFLK LFQSIEKEGILPNSFYEASIIIAK PGRDTTKKENFRPISLMNIDAKI LNKILAKRIQQHIKKLIHHDQV GFIPGMQGWFNIRKSINVIQHIN RAKDKKHMIIISIDAEKAFDKIQ QPFMLKSLNKL/DIGKNYFKVH MGPKKSPCRQVNPKEQSWR HHST*LQTILQGYSNQNSMVLV PKQRYRSMEQNTALRNNATYL QLSDL*QT*EKQAMGKGFP**
12507	42875	A	12582	722	4214	

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12508	42876	A	12583	228	1152	KNRDYNKLSLRPQC�NQTRTQN *ESHKPLNYMETEQPAPE*LL DT*RMKAEIKMFFETNENKDT TYQNLWDAFKATASKTNKEKE KNQIDTIKNDKGDITTDPTIEQT TIREYYKHL YANKLENLEEMD KFLDTYTLPRLNQEEVESLNRPI TGAEIVAIINSLPTKKSPGPDGF TAEFYQRYKEELIGWLRESVSK ICLKFDHQVQVITGRLLIRFQIAF GTVVLCQLTRHIDVFVGKRLA NARFAPSLGGAPDLFTLKPCFV AVETQGDLPQATTVVDIDGCL GKPANVQVALDL DVKGFQQW
12509	42877	A	12584	1	2028	
12510	42878	A	12585	2	2264	
12511	42879	A	12586	1	2130	
12512	42880	A	12587	1	2900	MENDFDELREEGFRQSNYSELR EDIQTKGKEVENFEKNLEECITR ITNTEKCLKELMELKTKAQELR EEWRSLRSRCDQLEERV SAME DEMNEKGEKGFREKRIKRNE QSLQEIWDYVKRPNLCLIGVPE RDGQNGTKLENTLQDVIQENFP NLARQANVQIQEIQRTPQRYSS RRATPRHIIVRFTKVEMKEKML RAAREKEIQT TISEYYKHL YTN KLENLEEMDKFLDTYTLPTLNQ EEVESLNRPI TGAE
12513	42881	A	12588	1	2745	
12514	42882	B	12589	1	3288	
12515	42883	A	12590	1090	2526	
12516	42884	A	12591	1	3242	
12517	42885	A	12592	3862	8976	RAKSPANIIMTGSN SHITLTN VNGLSPIKRHRLASWIKSQDP SVCCIQETHLMCRDTHRLKIKG WRKIYQANGKQKAGVAILVS DKTDFKPTKIKRDKEGHYMMV KGSIQQEELTILNMYAPNTGAP RFIKQVLSDLQRDLDSHTLIMG DFNTPLSTLDRSTRQKVNKDTQ ELNSALHQADLIDIYRTLHPKST EYTTFSAPHHSYSKIDHILGSEA LLSKCKRTEITNYLS DSHA IKL ELRIKNLTQSR
12518	42886	A	12593	1	1000	

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12519	42887	A	12594	1	979	MNNAKENFLGRFQDGRIGTAP VYSPQHQRRRRRVISALPTEPPL VIPRQTGFGVDLQQTPTDLQLR VLTVRRKTTKQEGHSTKTPSVR YHHQRPKEDKTTKMGRNQSRK AENSKNESASSPPKECSSSPATE QSWMENDFDKYTEVGFRLVI TNFSELKEDVQTHHKEAKNLE KRLDEWLTRINSIENTLIDLMEL KTMARELRDSCTSFSRQFDQVE ERVSVIEDQMNMKREEKFRE KKMLEVLPAIRQEKEIKGIQL GKEEVKLSLFADNMTVYLENPI IS\PKISLS**ATSAKSQDIKSMC KNHKHSYTPITDKQRAKS
12520	42888	A	12595	1140	2210	KPWHKNFVTHAQASIADLIKW KKG YQ* LKIKLMK*SKKTRNTN YHQNTINISMQIN*KI*KKWRNS WHTLSQY*TRKKLNL*IDQ*Q ALKL/QAIIYSLPTKNVQGQMD SQSNTTRVWGILARAIRQEKEI KDIQLENEEVKLSLFADDMTVY LENSIVSAQNLLKLRIKYLGIQL TTDVKDLFKENYKPLLNIKED TNKWKNIPCSWIRGINIMKMAI LPKLIYRFNAIPIKLPMFTFFTELE KATLKFIWNQKRAHIAKTILSK KNKAGGIMLPDFKLYYKATAT KAAWYWYQNRDIDKKLTQIYK KKTNNPIKKWAKDMNRHLSKE DIYGANRHMKKCSSSLVIREKQ IKTTMR
12521	42889	A	12596	520	697	GLCSVPLLCSVLVPVPCCFGYC SLVV*FEVR*SDASSFVLLA*DF LGNAVSVFLVPYEL
12522	42890	A	12597	1	1410	
12523	42891	A	12598	1	1461	
12524	42892	A	12599	77	457	QALKLRQ*LIAYQPKRVQDQM DSQTNSARGTKRSWYHSF*NYS N/PTEKEGILLNSFYEAGIILIPKP GRDTTKKENFRPISLMSINAKIL NKILANRILQHIKKLINTIKSASS LGCKAGSTYANQ

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12525	42893	A	12600	1	919	MGDFNTPLSTLDRSTRQKVNK DIQELNSALHQADLIDIYRTLHP KSTEYTTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITNCLSDHSA IKLELRIKKLTQNCSTTWKLNN MLLNDYWEHNKMKAIEIKMFF ETNKNKDTTYQNLWDTLKA VC RGKFKALNAHKRKKERSQIDTL TSQLELEKQEQTHSKASRRQE ITKIRAELEKETETQKTLQRLMN PGAVLEVLARAIRQEKEIKGIQL GKEEVKLSLFADDMIVYLENP MSQPKISLS**ATSAKSQDIKSIY KNHQHSYTPIRDKQRAKS
12526	42894	A	12601	1	1264	MDKFLDTYTLPRLNQEEVESLN RPITGSEIEAIINSLPTQKSSGPD GFTAIFYQRYKEELVPFLKLKLF QSIEKEGILPNSFYEASILIPKPG RYTHKKNNFRPISLMNIDAKIL NKILANRIQQHIKKLIHQDQVGI IPGMQSWFNIHKSINVIQHINRT KDKNHMIIISIDAEKAFDKIQQPF MLKTLNKLLENKIPKNPTYKGCE GPLQGELQITAQRNKGRHKQM EEHPMLMDRKNEYHKNIGHTPK VIYRFNVIPIKLPMFFSELEKST LKFIWNQKRARIAKTILSQKNK AGGIMLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEM TPHIYNHLIFDKPDKNKQWGK DSLFNKWCWENWLAIGRQLKL DPFLTPYTKINSRWIKDLNVRP KTIKTLEENLGNTIQDISMGKDF MSKTPKAMATKAKMDKWDLI KLKSFACTAKETTIRQSWPEMTK FTFSSNTDVKNWKHGKNNIGR HKTSVNTCKMDSGLVLERWM EWNPGFPLSIDAKCHKDLPRDI QFDSEKGVDFVLNYSKANMR WAGSMFL*FIESF*HEWLLNFV KGLFCIY*DNHVVFVFGSVYML
12527	42895	B	12602	1	1827	
12528	42896	B	12603	13	1377	
12529	42897	A	12604	557	664	KTPLSQPKISLS**ATTAKSQDT KSVYKNQQHSYT

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12530	42898	A	12605	77	1866	QAPKLRQ*LIAYQPKKVQDQTD SQPNSTRGTTKSWYHSF*NFSN/ PIEKEGIFPNLFYEANILIPKGR DTTKKENFRPISLMNVNAKILN KLLANQIQQHIKKLIHNNQVGFI PGMQGWFNICKSINVIQHINRT KDKNHRISIDA EKA FNKIQQPF MLKTLNKLDDMIVYLENPIVSA KNLLKLISNFSKVSGYKINVQK SQAFLYTNNRQAESQIMSAVSF TIASKRIKYLGIQLTRDVKDLFK ENYKPVLNKIKEDTNKWKNI PS LWIGRVNIMKMAILPKVIYRFN APIKLPMTFFTELEKTTLKFIW NQKRAHIAKTILSKKNKAGGIT LPDFKLYYKATVTKTAWHWY QNRDIDQWNRTEPSEIIPHIYNH LIFDKLDKNKTLGKDYL FNKRC WENWLAICRKLKLDPFLTRYT KINSRWIKDLNIRPKTIKTLEEN LGDTIQDIGMGKDFITKTPKAM ATKAKIDKWDLIKLSFCTAKE TTIRVNRQPTWENIFA IYPSDK GLISRIYKELKQIYKKKSNNPIK KWAKDMNRYFSKEDIYAANR HMKKCSSLALREMQIKTTMR YHLIPVRMAIHKKSGNNRCW
12531	42899	A	12606	67	243	GLCCVPLIYISVLVPVPCCFGYC SLVV*FEVR*HDASSFVLLA*D* LGDVGSFLVPYEL
12532	42900	A	12607	1554	1692	
12533	42901	A	12608	640	816	GLCSVALVCISVLVPVPCCFGY CSLVV*FEVR*HDASSFVLF A*D *LGNVDSLLVPYEL
12534	42902	A	12609	1626	1739	

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12535	42903	A	12610	1	2014	MKREGSLEKKRIKRNEQSLQEI CDYVKRANLRLIGGPESDGENG TKLENTLQDMQEKFPNLARQA NIQIQEIQRTPQRYSSRRATPRHI IVRFTKVEMKEKMLRAAREKG QVTHKGKSIRLTADLSAETLQA RREWGPIFNILKEKNFQPRISYP GKLSFISEGEIKSFSTDKQMLRDF VTRPALKELLKEALNMEKNK QYQPPQKHAKLTREARANTFK PSRRREITKIRAEKKEIETPKTAQ KINESRSWFSEIRINKIDRPLARL RKKKREKNQIDTIKNDEGDITT HPTEIHTIIREYYKHL YANKLEN LEEMDKFLDTYTLPRPNQEEVE SLNGPIAGSEIQAIINSLPTKKSP GPDGFYQRYKEELVPFRLKLFQ SIEKEGILPNSFYEASIILIPKGR DTTKKENFRPISLLNINAKILNKI LANRIQQHIKKLMHHDQVGFIP GMQGWFNIRKSINVIQHINRTK DKNHMIISIDAEKAFDKIQQPF MLKTLNKLIGDGYHKIIRANY DKPTANIILNGQKLEAFPLKTGT RQGCPLSPLLFNIVLEVLARAIR QEKETEGIQLGKEEVKLSLFAD DMIVYLENPMSQPKISLS**ATS AKSQDTKSMCKNHKYSYTPIT DKQRAKSSVNSPFTIASKRIKYL GIQLTRYVKDLFKERSMK
12536	42904	A	12611	1	700	MDKFLDTYTLPRLNQEEVESLN RPITGSEIEAIINSLSTKKSPGPD GFIAQFYQRTKDKNHMIISIDAE KAFDKIQQHFMKTLNKLIGD TYLKIIRAVYDKPTASIILNGQK LEAFPLKTGTQGCPLSPLLFNI VLEVLARAIRQEKEIKGIQLGKE EVKLSLFADDMIVYLENPMSQ PKISLS**ANSAKSQDIKSMCKN LKHSYTLITDKQRAKSSVNSHS QLLQRE
12537	42905	A	12613	1	1765	
12538	42906	A	12614	1	2310	

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12539	42907	A	12615	1	836	MENEFDELTEVHFRRWVITNSS ELKEHVLVTQCEEAKNLARRNK LENLEEMDKFLATYTFPSLNQE EVESLNRPITSSEIEAAINSLPTK KHPGPDGFTAKFYQRYKEELHI NRAKDKNHMIIISIDAEKAFDKI QHPVKLKILNKLIGDGYLKIIIR AIYDKPTANLILNGQKLEAFPL KTGTRQGCPLSPLLFNIVLEVLA RAIRQEKEIKGIQLGKEEVKLSL FADDRLYI*GTPLSQPKISLS** ATSAKSQDTKSMYKNHKHSYT PTTDKQRAKS
12540	42908	A	12616	355	4502	QSARFRGRRTLRRPGVGYSLVV *FEVR*CDASSFVLLA*DCLGN AGSFLVPYEL
12541	42909	A	12617	248	362	
12542	42910	A	12618	529	680	YYTRCSKWWNCSVLP*YIYINF HLPHGKLNKTDYIKKKLHDFFF KNSKHI
12543	42911	A	12619	1	641	
12544	42912	B	12620	36	48	
12545	42913	A	12621	1	326	
12546	42914	A	12622	1	444	PGSTHASAHACERLQTRTLRAF SSQRRFPATASRASLSSNMAKIS SPTETERCIESLIAVFQKYAGKD GYNYTLSTKTEFLSFMNTELAAF TKNQKDPGCP*PHDGRKLGQPT VDGQLDFSEFLNLIGG\QAMAC HDSFLKAVPSQKRT
12547	42915	A	12623	2	6008	
12548	42916	A	12624	530	856	

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12549	42917	A	12625	1	952	MAARGTGDKVKPGCEEAGAAF ELPPSVYAAALHESHQHQPCPA GGARAQRVPGGI VTEPLTCTPP KDMVFLSDDGDDDDDDNDND GGGDDNDGNDNDGNDNDNGD DDDGDDNDDGGDDNDNGNG NDGDNDNDGDNDDSNNGND GDGDDDGVDNDDNSDGNNDG DDDDSDDDGDSNGYDDDG GNDDDDGDSDDDDSDNGDGD NGDGDDDGDDDDNDNGHDD DGDMMMMMIVMMVMVMVMV MMVMVMVMVVVQLRKRAEA SVSEAKCSINVSDNDGNDG DGDDDDSDGDDDDGGGDDG SELTNQFPTNHSGMKASKLRK DSDHREW*W**WWWCN*GR EQRPVFLKQSAQLMSVMIMMM VMVMVMVMVMVMVMVMTMV VVMVVIVNSPINSRLITQA
12550	42918	A	12626	3	380	
12551	42919	A	12627	5	765	RQWEVGRWSGTTIFSCFKKTL YFTNPSPSSSLVTILRREVTH/ CGGAPEQRYQIIPVCVAARLPT RAQDVLD AHLSEVNAVRFGN SSLLATGGADRLIHLWNVVGSR LEANQTLEGAGGSITSVDFDPS VRNSAPVAWDCALSDLHTGQG YQVLAATYNQAAQLWKVGEA QSKETLSGHKDKVTA AKFKLT RHQAVTGSRDRTVKEWDLGRA YSPKRQRPSTGHDDGGFVE KKRGKCGEKRDQIVTVSV
12552	42920	B	12628	1	2802	
12553	42921	A	12629	458	708	QNRHRHHGPFMSMVA VSSQLLD TPAERLSLHTWKIAQRPGRGTP HFPDGA V/QAETLPQTGRPGR GTPHFPDGAASSFGYCSLVA
12554	42922	A	12630	2300	6491	EGLEALIHQERLSYWANQVSED RPVCKAIIQGKQFEGLVDTGAD VSIIALNQWPKNWPKQKAVTG LVGIGTASEVYQSMELHCLGP DNQESTVQPMITSIPNLWGRD LLQQWGAEITMPAPLYSPTSQK IMTKMGYIPGKGLGKNEDGIK VPVEAKINQEREGIGYPFLGAV TVEPPKPIPLTWKTEKPVWVNQ WPLPKQKLEALHLLANEQLEK GHIEPSFSPWNSPVFIQKKSGK WHTLTDLRAVNAV

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12555	42923	A	12631	1	434	MTVSKNKCHTKGGKKGTEKK VVASFSKIYWYNVKAPAMFSIR NIGKALVIGTHGTDVSDGFKG GLIEIPDSIGKDKEKACRSIYPLH DVFVRKVKMLKKPKFELGKLM ELHGEGRSSGKATGNESGA/KV E*ADGYGSPAQKSF
12556	42924	A	12632	1	642	
12557	42925	A	12633	260	534	
12558	42926	A	12634	1	438	
12559	42927	C	12635	391	750	
12560	42928	A	12636	199	451	
12561	42929	A	12637	120	992	RDRIPGPVCKGKWKNKERILIFS SRGINFRTRHLMQDLRMLMPH SK\HDTNMARSDNLSVINEGCE MNNWLRCIYFEAKKKQDLYM WLSNSPDGPSAKFLVQNIHTLA ELKMTGNCLKGSRPLLSFDPAF DELPHYALLKELLIQIFSTPRYH PKSQPFVDHVFTFTILDNRIWFR NFQIIEEDAALVEIGPRFVLNLIK IFQGSFGGPTLYENPHYQSPNM HRRVIRSITAACYREKQQVKDV QKLRKKEPKTLLPHDPAADV VTPAEEKPIEQWVKPETKVDL KASV
12562	42930	A	12638	1	342	
12563	42931	A	12639	1	580	PGWEKRMSRSS/GVNTQEALPT AAIPTDAKVRVYYFNHITNASQ WERPIGNSSSGGKNGQGEPARV RCSHLLVKHSQSRPSSWRQEK ITRTKEEVALELINGYIQIKSGE EDFE\SLASQFSDCSSAKA\RGD LG\SFSRGQMOKPF*RTPRFAL\ RTGGDERGPCFTD\SGIHILPHL SEGGKPRPGLGAGQGG
12564	42932	A	12640	3	116	
12565	42933	A	12641	2	253	
12566	42934	A	12642	3	512	EDYLERKRQ/VPTECQTHSKLG GPMTLKREVVP/KVDVSPSKKG PL\QHHTLLVCHVRIFYPGSIQ/ VRWFLNGRKKTAGVVSPNLIR NGDWT/FQILVMLEM/TPQQGD VYTCQVEHTSLDSPVTVEWKA QSDSARSKTLTGAGGFVLGLIIC GVGIFMHRRSKK\FNEDLHKQG
12567	42935	A	12643	1	363	
12568	42936	B	12644	70	1229	
12569	42937	A	12645	1	430	
12570	42938	B	12646	1	1321	
12571	42939	A	12647	3	446	

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12572	42940	A	12648	1	417	
12573	42941	A	12649	269	452	TILRSFGYFFRRINIMLTEEKIKS DHRKISQLIFLQKLCQTLQSENV SQGGMLYRAKA*H*T*TLVWV *HVMSYPHKGLGLMLSLCSVK HSTLRDVFTL
12574	42942	A	12650	83	1385	
12575	42943	A	12651	1	974	MNPLECVDRSSQPWGNPTWTS SGMRSVTFLVGFKLTFLALAQT LNAAASLTGQELLAGFPPGVINI LPGYGPTAGAAIASHIGIDKIAF TGSTEKEAELHSWIKGLTCISIE PDFQKSLKDGII LCILMNKLQPA SFPKINHSMQKWHQLENLSNFI KAVVSYDMNPMDL FKANNLFE SGNMRHMQVSLFALAGKVKT KRPQSGVDIGIKYSEKQEQNFS DAAMKAGQCVIGLQMGTNKC TSQLGMTVYGMGTNNCASQVS MTAPGTRQHICDTKLGTDKCG NSSMSLQMGYT/QGAANQPRV CEWQRGIRQQGFLPPCLGPSQE
12576	42944	A	12652	1	1103	MNPLECVDRSSQPWGNPTWTS SGMRSVTFLVGFKLTFLALAQT LNAAASLTGQELLWNFLLMF AWKIAPALCCGNTTVIKPAEQT PLSALYMGALIKEAGFPPGVINI LPGYGPTAGAAIASHIGIDKIAF TGSTEKEAELHSWIKGLTCISIE PDFQKSLKDGII LCILMNKLQPA SFPKINHSMQKWHQLENLSNFI KAVVSYDMNPMDL FKANNLFE SGNMRHMQVSLFALAGKVKT KRPQSGVDIGIKYSEKQEQNFS DAAMKAGQCVIGLQMGTNKC TSQLGMTVYGMGTNNCASQVS MTAPGTRQHICDTKLGTDKCG NSSMSLQMGYT/QGAANQPRV CEWQRGIRQQGFLPPCLGPSQE
12577	42945	A	12653	1	729	
12578	42946	A	12654	259	390	SFCSANFEVFRLTAQQ*FVR*H ALSHIF*G*V*SFPKSTKRVNF
12579	42947	A	12655	68	735	
12580	42948	A	12656	1	825	
12581	42949	A	12657	3	470	
12582	42950	A	12658	1	1683	

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12583	42951	A	12659	1	1748	MNKPYIRNLSENAAPLDLEGIL KDAKIPVSGPFLVKIGYAFVDC PDEIWALKAIEALSGKIELHGKP IEVEHSVPKRQRIRKLQIRNIPPH LQWEVLDS*LVQYGVVESCQQ VNTDSETAVVNVTYSSKDQAR QALDK/LLDKLNGFQLENFTLK VAYIPDEMATQQNPFLQPRGRR GLGQRGSSRQSGSPGSVSKQKPC DLPLCLLVPTQFVGAIIGKEGAT IRNITKQTQSKIDVHRKENAGA AEKSITILSTPEGTSAACKSILEI MRKETQDVKFTEEIPLKILAQN NFVGRLLIGKEGRNLKKIEQDTD TKITISPLQELMQYNPEHTITAK GNVETCAKAEIEIMKKIRER*E NDITSM/N/LQAHLPGLNLNAL GLFPPTSGMPPPTSGPPSAMTPP SPQSESESETVHLFIPALSVRA LISKQGQHIKQLSRFAGASSKIA PVEAPDAKVRMVMIAGSPEAR FKAQGRIYGKIKEENFVSPKEE VKLEAHIRVPSFAAGRVIGKGG KTVNELQNFSSAEVVVPRDQTP DENDQVVVKITGHFYACQVAQ RKIQEILTQVKQHQQQKALQSG
12584	42952	A	12660	3	803	
12585	42953	B	12661	1	330	
12586	42954	C	12662	127	342	
12587	42955	A	12663	324	491	
12588	42956	A	12664	1	891	
12589	42957	B	12665	1	1869	
12590	42958	A	12666	2	136	
12591	42959	A	12667	108	355	
12592	42960	A	12668	2	811	FGMRGSRGGWAGEMAASGES GTSGGGGSTEEAFMTFYSEVKQ IEKRDSVLTSKNQIERLTRPGSS YFNLNPFVLQIDPEVTDEEIKK RFRQLSILVHPDKNQDDADRA\ QKAFAVDKAYKLLLDQEQQK RALDVIQAGKEYVEHTVKERK KQLKKEGKPTIVEEDDPELFKQ AVYKQTMKLFAELEIKRKERE AKEMHERKRQREEEIEAQEKA KR/EEREWQKNFEES\RDGRVD SWRN\QAQFRRGKKEKKNRTF LRPPESKNGSNE
12593	42961	A	12669	731	850	
12594	42962	A	12670	201	377	LMTLPCKIPSPGSSWLKISPIEHL MTPTPASQRTTFFDCNFPLPTQI L*NGPTPISLH

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
12595	42963	A	12671	742	2982	KIFPFDASFLPCLHKFNLKGKG NSKGFKMAEFESLMNIHGFDL GSRYMCLKPLGCGGNGLVFSA VDNDCDKRVAIKKIVLTDPQSV KHALREIKIIRRLDHDNIVKVFE ILGPSGSQLTDDVGSLELNSV YIVQEYMETDLANVLEQGPLE EHARLFMYQLLRGLKYIHSAN VLHRDLKPANLFINTEDLVKI GDFGLARIMDPHYSHKGHLSE GLVTKWYRSPRLLLSPNNYTK AIDMWAAGCIFAEMLTGKTLF AGAHELEQMQLILESIPVVHEE DRQELLSVIPVYIRNDMTEPHK PLTQLLPGISREALDFLEQILTFS PMDRLTAAEALSHPYMSIYSFP MDEPISSHPIHIEDEVDDILLMD ETHSHIYNWERYHDCQFSEHD WPVHNNFDIDEVQLDPRALSD VTDEEEVQVDPRKYLDGDREK YLEDPAFDTNYSTEPWCQYSD HHENKYCDLECSHTCNYKTRS SSYLDNLVWRESEVNHYEYPK LIIDLSNWKEQSKEKSDKKGKS KCERNGLVKAQIALEEASQQLA GKEREKNQGDFDFSFIAGTIHL SSQHEPTDVGDKLNDLNSSVS QLELKSLISKSVSQEKQEKGMA NLAQLEALYQSSWDSQFVSGG EDCFFINQFCEVRKDEQVEKEN TYTSYLDKFFSRKEDTEMLETE PVEDGKLGGERGHEEGFLNNSGE
12596	42964	A	12672	826	1041	WKITVKGGVFLWWAGVGDTK VLSGGAF*ARMSQEEDFHKVM SSVKARTGHLHFFCGGMSSVK AGQGPFVLL
12597	42965	A	12673	1	1482	
12598	42966	A	12674	3	488	
12599	42967	A	12675	2	114	

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12600	42968	A	12676	1	897	MSNRVVCREASHAGSWYTASG PQLNAQLEGWLSQVQSTKRPA RAIIAPHAGYTYCGSCAAHAYK QVDPSITRRIFILGPSHHVPLSRC ALSSVDIYRTPLYDLRIDQKIYG ELWKTGMFERMSLQTDEDEHS IEMHLPYTAKAMESHKDEFTIIP VLVGALSESKEQEFGLFSKYL ADPSNLFVVSDFCHWGQRFR YSYYDESQGEIY*SIEHLDKMG MSIIEQLDPVSFSNYLKKYHNTI CGRHPIG\VLLNAITELQKNGM NMSFS\FLNYAQSSQC\RNWQD SSVSYAAGALTVH
12601	42969	A	12677	2	114	
12602	42970	A	12678	1	897	MSNRVVCREASHAGSWYTASG PQLNAQLEGWLSQVQSTKRPA RAIIAPHAGYTYCGSCAAHAYK QVDPSITRRIFILGPSHHVPLSRC ALSSVDIYRTPLYDLRIDQKIYG ELWKTGMFERMSLQTDEDEHS IEMHLPYTAKAMESHKDEFTIIP VLVGALSESKEQEFGLFSKYL ADPSNLFVVSDFCHWGQRFR YSYYDESQGEIY*SIEHLDKMG MSIIEQLDPVSFSNYLKKYHNTI CGRHPIG\VLLNAITELQKNGM NMSFS\FLNYAQSSQC\RNWQD SSVSYAAGALTVH
12603	42971	A	12679	1	912	
12604	42972	A	12680	1	156	
12605	42973	A	12681	112	1120	
12606	42974	A	12682	33	415	NMNKPITPSTYVRCLNVGLIRK LSDFDIPQEGWKKLAVAIAKKPS GDDRYNQFHINDAVPKTANTLP SKEAITVQQKQMPFCDKDRTL MTPVQNLEQSYMPPDSSSPENK SLEVSDTRFHSFSFYELKN
12607	42975	A	12683	3	311	
12608	42976	A	12684	1	1125	
12609	42977	A	12685	1	1365	
12610	42978	A	12686	3	141	VVSTVVPDS/AHKLFIGGLPNYL NDDQCHGLSKGYAFCEYVDIN VTV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
12611	42979	A	12687	1	1255	GTRSTSSLRRQMKNIVHNYSEA EIKVREATSNDPWGPSSSLMSEI ADLTYNVVFASFSEIMSMIWKRL NDHGKNWRHVYKAMTLMEYL IKTGSERVSQCKENMYAVQT LKDFQYVDRDGKDQGVNVRE KAKQLVALLRDEDRLREERAH ALKTKEKLAQTATASSAAVGS GPPPEAEQAWPQSSGEEELQLQ LALAMSKEEADQEERIRRGGDL RRRWQSRRARGRLGARRSRPS WTLTSSSRPQLLPRPQTGGGAQ HPWLLPSPRLPPRTPGAAPLSL QLLIPGEVQPPRRPLGTPGGLLP LQDPQLTLGVGPQLQLGRGPR LIHGEVPMVGSRVSGPQPPIPGH RPRPSQIPGEGHLPSPAPMAQQ QPGDSTRSPTSSLTLTDSARHCR PPGAAQESWSCWQERCPEAL
12612	42980	A	12688	116	1541	
12613	42981	A	12689	3	415	
12614	42982	A	12690	1	1440	
12615	42983	C	12691	117	314	
12616	42984	A	12692	3	120	
12617	42985	A	12693	1	729	
12618	42986	A	12694	79	870	EWSSVRRSLVEKRALRRPHPQC LCFRMKTILSNQTCRPFPE\NVD \ITLKGRP\IVIV*GPAEGTLR\DF \NHLQW*NLSLSWKEKKRGSR VDK\WWGNRKGNWPT\VRTYL VVHVQNMIGVLPGLPVTKD EGLVYA\HFPHPTLVIPGRNGSS LLKSRNFLGVKNTSRRVSG*RP GIVACS\VSSSPRKDEFNPLKGN DIGACFQISAGFGFQQAPHTCL KTRDIQGNFWDGYPMVLWKK GTVSARAGWNKDLKEFTWATE RKMPG
12619	42987	A	12695	2	293	
12620	42988	A	12696	1	273	TRGPWCDSVLRGCSLEQRSFIS VRLLSYLSACRHPMEDSMDMD MSPLRPQNYLFG\SLGAGAKDE LHIVEAEAMNYEGSPIKVTLAT LKMS
12621	42989	A	12697	1	1308	

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12622	42990	A	12698	124	1135	DKNSMGLPGVIPSCAAVLWSSI HLSSSALSPTISACRHPMEDSM DMDMSPLRPQNYLFGCELKAD KDYHFKVDNDENEHQLSLRTV SLGAGAKDELHIVEAEAMNYE GSPKVTLATLKMSVQPTVSLG GFEITPPVVLRLKCGSGPVHISG QHLVAVEEDAEESEDEEEEDVK\ LLSISGKRSAPGGGSKVPQKK\ KLAADVEDDDDDDEEDDDDED \DDDDFDDEEAEEKAPVKIKSI\ RDTPAKNAQKSNQNGKDSKPS STPRSKGQESFKKQEKTPKTPK GPSSVEDIKAKMQASIA/EKGGG LPKVEAKFINYVKNCFRMTDQ EAIQDLWQWRKSL
12623	42991	A	12699	201	416	
12624	42992	A	12700	2	678	
12625	42993	A	12701	3	2149	
12626	42994	A	12702	1	219	
12627	42995	A	12704	267	437	
12628	42996	A	12705	507	845	
12629	42997	A	12706	426	704	SRRWGGVHSCPPSPPTAGHWT LLILCAKARRSEAMVLASRRR RPGPRPRRRRLPVLGSRGGAG PARGRGPSGWPGPLRAAPSP*P SSTV
12630	42998	A	12707	195	892	
12631	42999	A	12708	1	893	
12632	43000	A	12709	1	777	
12633	43001	A	12710	1	439	KTQVAPSTDGIQPPSSNSRTDE REFFIASYNRKKEDEGENVWIA KSSAGAKGEGILISSEASELLDFI DNQAQVHVIQKYLEHPLLEPG HRKFDIRSWVLVDHQYNIYLY REGVLR TASEPYHVDNFQDKT CHLTNHCIQKKKKK
12634	43002	A	12711	1	394	SGTRPVFLVPHTIGIPHPAIVTP QVKQEHPTHDSDLMHVKPQHE QRKEQEPKRPHIKKPLNAFMLY MKEMRANVVAECTLKESAAIN QILGRRWHALSREEQAKYYEL ARKERQLHMQLYPGWSARDN
12635	43003	A	12712	1	789	
12636	43004	A	12713	1	870	
12637	43005	A	12714	1	729	
12638	43006	A	12715	1	828	
12639	43007	A	12716	1	213	
12640	43008	A	12717	1	664	
12641	43009	A	12718	1	695	
12642	43010	A	12719	96	269	

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12643	43011	A	12720	3	241	
12644	43012	A	12721	213	660	EGPARHRLLSPPVRASKMTKKR RNNGRAQKRAARHVRGSPSLK/ CFPSGPLPPNCAR\CVPK\DKAIK KF\VI\RNIVEAAA\AR\DISEASV FDAYLALPKL\YVKLH\YCVSCAI HKQK*SGNRSS*SPAKTRTPPPR FR\PGG*LPHGPPTKSP
12645	43013	A	12722	1	303	
12646	43014	A	12723	610	928	FLSLPTFLFVIFSGEEELLVLALV FLSLFFFFFFLFRWSFAVVAQAV VQWHNLSSLPGFKQFSCLSLP SSWDYRCPPRPANFCIFTRDG VSPCCPGWSRTSDLR
12647	43015	A	12724	1	2775	
12648	43016	A	12725	1	6039	
12649	43017	A	12726	2	3661	
12650	43018	A	12727	1	1173	
12651	43019	A	12728	1	1632	MPNPKNSKGGRKNKRANSSGD EQENGAGALAAAGAAGAAAG GALAAAAGCGAAAAGAPGAG GAAGAGGAGTGAANAAAAAG AAAAGDAKNEAPCATPLICSFG RPVDLE\KDDYQKVVCNNEHC PCSTWMHLQCFYEWESSILVQF NCIGRARTWNEKQCRQNMWT KKG\YDL\AFRFCSCRCGQGNL KKDTDWYQVKRMQDEKKKKS GSEKNTGRPPGEAAEEAKKCRP PNKPQKGPSHDLP RRHSM DRQ NSQEKA VGAAAYGARSPGGSP GQSPPTGYSILSPAHFSGPRSSR YLGEFLKNAIHLEPHKKAMAG GHVFRNAHFDYSPAGLAVHRG GHFDTPVQFLRRLDSELLTHIP RHKLNTFHVRMEDDAQVGQG EDLRKFILAALSASHRNVNCA LCHRALPVFEQFPLVDGTLFLSP SRHDEIEYDVPCHLQGRMLHL YAVCVDCLGVHKKIICKKSR WDGSHWQLGTMYTYDILAASP CCQARLNCKHCGKPVIDVRIG MQYFSEYSNVQQCPHCGNLDY HFVKPFSSFKVLEAY
12652	43020	A	12729	1	1485	
12653	43021	A	12730	1	1074	
12654	43022	A	12731	2	3394	
12655	43023	A	12732	1	2190	
12656	43024	A	12733	1	1251	
12657	43025	A	12734	1	1710	
12658	43026	A	12735	3	679	

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12659	43027	A	12736	209	337	
12660	43028	A	12737	365	538	
12661	43029	A	12738	2	196	
12662	43030	A	12739	1	2639	
12663	43031	A	12740	3	173	
12664	43032	A	12741	1	1479	
12665	43033	A	12742	1	921	
12666	43034	A	12743	1	798	
12667	43035	A	12744	2	773	
12668	43036	B	12745	75	321	
12669	43037	A	12746	321	738	
12670	43038	A	12747	1	3190	
12671	43039	A	12748	287	1636	ACGAMERAPPDGPLNASGALA GDAAAAGGARGFSAAWTA VL AALMALLIVATVLGNALVMLA FVADSSLRTQNNFFLLNLAISDF LVGAFCIPLYVPYVLTGRWTFG RGLCKLWLVDYLLCTSSAFNI VLISYDRFLSVTRAVSYRAQQG DTRRAVRKMLLVWVLAFLLYG PAILSWEYLSGGSSIPEGH CYAE FFYNWYFLITASTLEFFT PFLSV TFFNLSIYLN IQRRLRLD GAR EAAGPEPPPEAQSPPPPGCWG CWQKGHG EAMPLHRYGVGEA AVGAEAGEATLGGGGGGGSVA SPTSSSGSSSRGTERPRSLKRG S KPSASSASLEKRMKMVSQSFTQ RFRLAIRDREAKSLAVIVSIFG LCWAPYTLLMIIRAACHGHCVP DYWYETSFWLLWANS AVNPV LYPLCHHSFRRAFTKLLCPQKL KIQPHSSLEHCWK
12672	43040	A	12749	1	2142	
12673	43041	A	12750	3	711	VWWNSDLMVINRSTTELPLTV SYDKVSLGRLRFWIHQDAVY SLQQGFSEKDADEVKGIFVDT NLYFLALTFFVAAFHLLFDFLA FKNDISFWKKKKSMIGMSTKA VLWRCFSTVVIFLFLDEQTSLL VLVPAGVW/AAAIELWES*RK/ VI*RTWTFWRGLMPEFQFGTYS ESERKTEEYDTQAMKYLSYLL YPLCVGGAVYSLN IYKSWY SWLINSFVNGVYA FGFLFMLPQ
12674	43042	A	12751	1	2025	
12675	43043	A	12752	494	747	ATVKWITLCRNRNIKLPTFIKKE GTGKAPKSRKSVLGLGP*VHT SPGDPAEGEGLPAGERPDGNLS QSPNSLRFYIKKKKAYK
12676	43044	A	12753	9	731	

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12677	43045	A	12754	143	641	RSWVLLGVGARGSTPRTYQVP SPSLAPSALC*VS*VPLESLSCSH ADNWKQELTKFISPDQLPVEFG GTMTDPDGNPKCLTKINYGGE VPKSYYLCKQVRLQYEHTRSV GRGSSLQVENEILFPGCGLRVL RFYNTYSLVHSKRISYTVEVLL PDQTFMEKMEKF
12678	43046	A	12755	1	1506	
12679	43047	A	12756	2	526	CQPVRAA*RHGNTPLATV*PAS T/WWKWSEKQKEEQEMQNWR ESAS/VSGYPQDILSCAMSQNPR KRKRPRNVSAAPPVHQAQMNI SVEQMETS KTHQATPLTWGQM KRLAHVAEENLRSQNKPLTTSN LMVAMMVVISLAVSLPVAGAD QNYIYWAYIPFPH
12680	43048	A	12757	1	1443	
12681	43049	A	12758	3	766	
12682	43050	A	12759	29	253	
12683	43051	A	12760	34	252	
12684	43052	A	12761	1362	1611	SSVLHPWDARLVQHT\KSIHH HINRTNDKNHMIISIDAEKAFD KIQQDFMLKTLNKLIGDGYLK IVRATYDKPTASHLNG
12685	43053	B	12762	1	1755	
12686	43054	A	12763	1	2109	
12687	43055	B	12764	1	1497	
12688	43056	B	12765	1	1527	
12689	43057	B	12766	1	1746	
12690	43058	B	12767	1	2853	
12691	43059	B	12768	1	1479	
12692	43060	B	12769	1	1932	
12693	43061	A	12770	1269	1581	NTGKPNPAAHQKGYPPRSSGPH PWDARLVQHT\KSINIIHHINRT KDKNHMIISIDAEKAFDKIQLPF MLKTL SKLGVSYNMFTRLTPI AQVDTRGNQLPSYLI
12694	43062	B	12771	1	4404	
12695	43063	B	12772	56	2080	
12696	43064	B	12773	1	5445	
12697	43065	B	12774	295	2831	
12698	43066	A	12775	89	459	
12699	43067	A	12776	2	980	
12700	43068	A	12777	1	378	
12701	43069	A	12778	1	363	PGVALPGRRCRQAPADLLP*MR AYWPDVIYSFANRSRFWKHEW EKHGTC AAQVDALNSQNKYFG TSLELYRELDLNSVLLKLGKPS INYYQVADFKDALR VYGVIP KIQCLPPSQDEDRQ

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12702	43070	A	12779	1	577	QRFKND CRDPRDTGPIHGLWPD KSEG/CNRSW/PFNLEEIKDLCP EMRAYWPDVIHSFPNRSRFRWK HEWEKHGTCAAQVDALNSQK KYFGRSLELYRELDL/NQVADF KDALARVYGVIPKIQCLPPSQD EEVQTIGQIELCLTKQDQQLQN CTEPGEQPSPKQEVWLANGAA ESRGLRVCEDGPVFYPPPKKTK
12703	43071	A	12780	1	624	MRPAALRGALLGCLCLALLCL GGADKRLRASVSRPFSLEHPEP GHCLDLHLRAYPAR\WSS*PWP QDFWVR*PTWES/VSDLLPEMR AYWPDVIHSFPNRSRFRWKHEW EKHGTCAAQVDALNSQKKYFG RSLELYRELDLNRGERVPTQFP RELVVNRSLAPPPTPGFLSGHVI SVHTSSPLPSAMSGSFLRPLPEA ESGSMLLGQPADP
12704	43072	A	12781	1	612	
12705	43073	A	12782	113	1149	RGAPRGPRGQGCGHSRSPAR GPRDTGLGRPRAPGAPGGRCCS GGSAAARGLGDSVSPGSLPRAA GGKWEPERQLAAFSPQVGTMR PAALRGALLGCLCLALLCLGG ADKRLRDNHEWKKLIMVQHW PETVCEKIQNDCRDPPDYWTIH GLWPDKSEGCNRSWPFNLEEI KDLLPEMRAYWPDVIHSFPNRS RFRWKHE/WPKRHGTCAAQVD ALNSQK\KYFGRSLELY\RKLDL NSVLALKLGKPSINYYQVADFK DALARVYGVIPKIQCLPTSQGE\ EVQTIGQ\IDLCLIKARTRQLQN\ CTEPGEQPSPKQEVWLANGA\ AESRGLRVCEDGPVFYPPPKKT
12706	43074	A	12783	2	515	
12707	43075	B	12784	62	359	
12708	43076	B	12785	219	523	
12709	43077	A	12786	1010	1550	DTENIPSSRRRERSKVPYIVRQC VEEIERRGMEEVGIYHVSGRIV AADIQALKA AFNVSECRPAQD GMEVWAVVSAMRSQSAPRPRH VTSFSVSFLHLSGSSRRPLHFRA LS\NNKDVSVMMSEMDVNAIA GSLKLYFRELPEPLFTDEFYPNF AEGIGEHWRPWPHGRLLHVH CCPQRL

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12710	43078	A	12787	2	951	GSNLYCTLEGDSFGYFVNKAK TRVYRD/THADPNWNEEFIEL EGSQTLRILCYEKCYNKTKIPKE DGESTDRLMGKGQVQLDPQAL QDRDWQRTVIAMNGIEVKLSV KFNSREFSLKRMPSRKQTGVFG VKIAVVTKRERSKVPIYIVRQC VEEIEPPKALEGGWASTACPAG VATDIQALKAAFDGNNKDVS MMSEMDVNIAAGTLNLYFREL PEPLFTDEFYPNFAEG/IRVAEK EAVNNMSLHNLATVFGPTLLR PSEKESKLPANPSQPITMTDSW SLEVMSQVQVLLYFLQLEAIPA PDSKRQSILFSTEV
12711	43079	A	12788	3	644	
12712	43080	A	12789	168	378	
12713	43081	A	12790	1	486	
12714	43082	A	12792	83	536	
12715	43083	A	12793	1	662	
12716	43084	A	12794	3	357	
12717	43085	A	12795	2	421	
12718	43086	A	12796	2	908	
12719	43087	A	12797	1	846	
12720	43088	C	12798	87	413	
12721	43089	A	12799	1	508	MCQGDYAWGGHMCRRGHLR RGHSHERDTPRGPERPPPPAR DRESKDERRRPPPKDPPAVRTC PDSPTATPPPPPPPPPPPPPPPP PAAPSAFAALRLRGPRKWT RGQLPLPATAPEARVRALPRGG YSSPGRATSARGPAPWPLPSRT GKPPRPCSANTQEH
12722	43090	A	12800	1	393	
12723	43091	A	12801	1	582	
12724	43092	A	12802	1	1422	
12725	43093	A	12803	1	1080	
12726	43094	A	12804	2	261	SCPFGGNCFYKHAYPDGRREEP QRQKVGTSRYRAQRRNHFW LIEERENSPPFDNDEEEVVFEL GE\MLLMLLAAGGDEL TNS
12727	43095	B	12805	60	802	
12728	43096	A	12806	2	238	
12729	43097	A	12807	1	1017	
12730	43098	B	12808	1	939	
12731	43099	A	12809	1	708	

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12732	43100	A	12810	1	2653	MGDFNTPLSTLDRSMRQKVNK DIQELNSALHQADLIDIYRNLHP ESTEYTFFSAPHHTYSKIDHILG SKAPLSKYRRSEIKINCLSDHSA IKLELRIKKLTQNRSTTWKLNN LLNDYWVHNEMKAEIKMFFE TNENKDTTYQNLWDTLKA VCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTHSKASRRQEI SKIRGELKEIETQKTLQKINESR GWFFEKINKIDRLLARLIKKKR EKNQIHAIKNDKGD MSTNHT EI QTTIREYYKHL YANKLENLKEI DKFLETYSLPRLNQEEVESLNR PITGSEIEA INSLPNKRSPGPDG FTAKFYQRYKEELLISNFSKVS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRMKYLGIQPT RDMKDLFKENYKPLLNEIKEDT NKWKNIPCSWVGRINIVKMAIL PKNWKKTTTLKFIWNQKRARIA KSILSQKNKAGGIMLPDFKLYY KATITKTAWYWYQNRDIDQW NRTEPSEIMPHIYNHLIFDKPDK NKKWKGKDSL FNKWCWENWLA ICRKLKLD PFLTPYTKINSRWIK DLNVRPKTIKTLEENPGNTIQDI GMGEDFMSKTPEAMATKAKID KWDLIKLSFCTAKETTIRLNR PPTWEKIFAIYSSDKGLISRIYN ELQQIYEKKTNNPIKKWAKDM NRHLSKEDIYAAKRHMKKCAS
12733	43101	B	12811	1	2748	
12734	43102	A	12812	1	1962	
12735	43103	B	12813	1	1833	
12736	43104	A	12814	176	421	QQPASPTRSVLLFPKTAHISGSP APPNVGLLNPSTGAAQKKTMT SAGLGRLSL*K*LNLPECVACA GETWVTSMMSGNQC�

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12737	43105	A	12815	1	1615	LISNFSKVSGYKINVQKSQAFL YTNNRQTESQIMSELPFTIASKR MKYLGIQPTRDMKDLFKENYK PLLNEIKEDTNKWKNIPCSWVG RINIVKMAILPKNWKKTTLKF WNQKRARIAKSILSQKNKAGGI MLPDFKLYYKATITKTAWYWY QNRDIDQWNRTEPSEIMPHIYN HLIFDKPDKNKKWGKDSL FNK WCWENWLAICRKLKLDPFLTP YTKINSRWIKDLNVRPKTIKTLE ENPGNTIQDIGMGEDFMSKTPE AMATKAKIDKWDLIKLKSFCT AKETTIRLNRPTEWEKIFAIYS SDKGLISRIYNELQQIYEKKTNN PIKKWAKDMNRHLSKEDIYAA KRHMKKCASSLAIREIQIKTTM RYHLTPVRMAIIKKSGNNRCW RGCGEIGTLLHCWWDCCLVQP LWKS VWRFLRDLELEIPFPAIP LLGIYPKDYKSCCYEDTCTHMF IVALFTIAKTWNQPKCPTMIDW IKKMWHIYTMEYYADIKKDEF MSFVRTRMKLETIILSKISQIEK KTKHRMFSLIGGN
12738	43106	A	12816	1	996	
12739	43107	A	12817	1	756	
12740	43108	A	12818	1	1428	

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12741	43109	A	12819	1	2377	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGMQGWFNIRKSI NIVQHINRTNDKNHMIISIDAEK AFDKIQQRFMLKTLNKLIGDGT YLKIIIRAIYDKSTANIVLNGQKL EAFPLKTGTRQGCPLSPLLFNIV LEVLARAIRQEKEIKGIQLRKEE IKLSLFADDMIVHLENPIVSAQN LLKLIDNFSKVSQYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SERIKYLGILTRDVKDLFKEN YKPLLNDIKEDTNKWKNTPRS WVGRINIMKMAILPKVIYRFNA IPIKLPMFTFFTELEKTTLKFIWN QKGARIAKSILIYRFNAQELEKT TLKFIWNQKGARIAKSILSQKN KAGGITLPDFKLYYKATVIKTA WYWYQNRDIDQWNRTEPSEIM PHIYNHLIFDKPDKNKKWGND LFNKWCWENWLAICRKLKLD FLIPYTKINSRWIKDLNVRPKTI KTLEENLGNTIQDIAMGKDFMS KTPKAMATKAKIDKWDLINLK SFCTAKETTIRVNRQPIEWKIF AIYSSDKGRISRIYNELKQIYKK KTNNPIKKWAKDMNRHFSKED IYAAKRHMKKCSSSLAIREMHI KTTMRHHLTSVRMAIHKLG DWCWRGCGEIGRLLHCWDC KLVQPLWKS VWRFLRDLELET PFDPATPLLGIYPKDYKSCCYK DICT/RVCVPAALFTIANTWNPT
12742	43110	A	12820	1	4840	
12743	43111	A	12821	578	630	EYKNR*GLSLNPWGKTVHISW DVWSVGSSKAKRNWESWES*C RGIQKKASLRSRTGNHSASSGI* ESRV*GLGTTGYRGITASLMSL RSCTRLH
12744	43112	A	12822	8	214	EEWPKRKSEIRERPRP*SWPSDK QTLVVQRGQKMEQANHPDPTD HMSQLMWTACPKGLGIALICL VRH
12745	43113	A	12823	33	240	GGRNTWLQAVPGFPGW*RTL RTAVWDRRLTLRKPHHCPGGS QFPGPQRQVIGLLHFLSSLNHQ GWV

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12746	43114	A	12824	1	411	MSTITQRKEENPSVFLEWLWEA /CKKIYSPVTRLTRGSIDPKR*V YYAISHRYQQKAPKPSGP*TK SGGIKPGNLGVLY*GPRGTGQ KKGARSEKGC SL SHGPQTNKP WWFREDRKWSRPITWYGFLSV WFARTP
12747	43115	A	12825	1	611	
12748	43116	A	12826	120	493	KYRAQRRMIARWLPQDLERGE AMLPNSSGWYKSLKGI/VLISEA FSCCKRAASLTADWL*VKQHS SPKKVQSPFSAVRRSKPWQFW RVTA AKQSIWDCRVRIDFVISC KLRNPLRVCGSRILK
12749	43117	A	12827	1	2195	VGEEGPAGVEGLNFFPAQSRRLP GPQQCSPGAEQGASARARRPRP RPRPAAMVPGVPGAVLTLCLW LAASSG\SWRPAPARL\CAAAG RVAVCRERPARS\CASRCLSLQI TRISAFFQHFNNGSLVWCQNH KQCSKCLEPCKESGDLRKHQC QSFCEPLFPKKS YECLTSCEFLK YILLVKQGDCAPEKASGFAAA CVESCEVDNECSGVKKCCSNG CGHTCQVPKTLYKGVPLKPRK ELRFTELQSGQLEVKWSSKFNI SIEPVIYVVQRRWNYGIHPSED DATHWQTVAQTDERVQLTDI RPSRWYQFRVA AVNVHGTRGF TAPSKHFRSSKDPSAPPAPANLR LANSTVNSDG/AV*TVTIVWDL PEEPDIPVHHYKVFWSWMVSS KSLVPTKKRRKTTDGFQNSVI LEKLQPCDYVVELQAITYWG QTRLKSAK VSLHFTSTHATNNK EQLVK\TRKGGIQTQLPFQRRRP TRPLEVGAPFYQDGLQVKVY WKKTEDPTVNRVHVRWFPEAC AHNRTTGSEASSGMTHENYIIL QDLFSCKYKVTVPQIRPKSHS KAEAVFFTPPCSALKGKSHKPI GCLGEAGHVLSKVLAKPENLS ASFIVQDVNITGHFSWKMAKA NLYQPMTGQVTWAEVTTESR QNSLPNSIISQSILPSDHYVLT PNLRPSTLYRLEVQVLTGGEG
12750	43118	A	12828	1	1410	
12751	43119	A	12829	2	299	
12752	43120	B	12830	81	510	
12753	43121	A	12831	3	436	
12754	43122	A	12832	1	769	

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12755	43123	A	12833	15	413	ERM CAGPWRKGAETGPYFCND TVRHRKASLLCPF*RMNGDQN SDVYAQEKQDFVQHFSQIVRVL TEDEMGHPEIGDAIARLKEVLE YNAIGGKYNRGLTVVVAFREL VEPRKQDADSLQRAWTVGWC VELLQA
12756	43124	A	12834	1	795	MNGDQKSDVYAQEKQDFFQHF SQIVGVLTEDMGHSEIGDAIA RLKDVLEYNAIGGKYHRGLTV LVAFQELDAINYAILLEACIYYL LKLYCQAQPYLNLIELFLQISC QPEIGQTLDLITAP/QDNVDFGR FT/EKQHANA*KILLEI/GEFFQI QDGYLDLFGDPTVTRKVGTDIQ DNKCSWLVVQCLQRSTLEQYQ ILKENYGQKKAKKVQVKALY EELDPAVFLQYEEDGYSHIMG LTEQYAAPLLPAMFLGLVYKIY
12757	43125	B	12835	1	328	
12758	43126	A	12836	2	868	
12759	43127	B	12837	118	1138	
12760	43128	A	12838	100	374	KHISPALKALELPFERNLII/PLQ LLKVRIKKEGEM/DI*HWFL** GMGTVQKGMPhKCYHGKTGR VYNVTQHAVGIVVNKQVK*VV
12761	43129	A	12839	1	1035	
12762	43130	A	12840	13	600	INPPPPFRPELPSSNSPKMTDH KGERGEATRYMFSRPFKKTMG VVPLGHNN*RFYKKGDIVDNIK GMGYCVQNGMPHKCYPWPKL EGVLQLLPQHA/VAIVVNQPVL GQSFFPRE*IVRIEHIKHF*EPEIS FLK/RVLKENDSEKERSPNEKG TWGSNLKRHLAPPQKKHTL*R TNGKEPELLEPIPYEFHGHN
12763	43131	A	12841	1	317	QRPSEAKEIKLYAQIPPIEKMDA SLSMLANCEKLSLSTNCIEKIAN LNLAEAVGDTLEELWISYNFIE KLKGIHIMKKLKILYMSNNLVK DWGTPVIKGDEEEDN
12764	43132	A	12842	155	588	
12765	43133	A	12843	1	954	
12766	43134	A	12844	1	486	
12767	43135	A	12845	1	367	
12768	43136	A	12846	1	190	LISRAKEDDMTLNIAEGVHPSY NIVLNTLHT/CGISVKSTWRPSK GAAP*ARMPGGTAGPCLAS

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12769	43137	A	12847	1	2376	MRGAQKATNVNKLSEDIQGKE ESPTQFYERLWEAYRMYTPFDP DSPENQRMIPMALVRQSAEDM RRKLQKQAGLAGMNPSQLLEI ASQVFVNRDVSRKENGKENG GQARRYADLFSRTKNYQPVQD LRLHQAHLTFHPTVNPSTLL GFPPAEDSWFTCLDLKDAFFPIR LAPERQKLFAFQWEDPESGWPP CWRA\WQQLPC*YKIVPSILRIS SSDGKYKAFSTCGSHLAVVC
12770	43138	A	12848	1	636	MRGAQKATNVNKLSEDIQGKE ESPTQFYERLWEAYRMYTPFDP DSPENQRMIPMALVRQSAEDM RRKLQKQAGLAGMNPSQLLEI ASQVFVNRDVSRKENGKENG GQARRYADLFSRTKNYQPVQD LRLHQAHLTFHPTVNPSTLL GFPPAEDSWFTCLDLKDAFFPIR LAPERQKLFAFQWEDPESGWPP CWRA\WQQLPC*YKKQIS
12771	43139	B	12849	180	811	
12772	43140	A	12850	1008	1265	FLGVPTLGGWRPIQHELK/PRE VTPVLLRDLIRFRPPLWIGSDN GPAFLAALVQKTAKGIQNNITG GVYTLCDIDSHILFRSGY
12773	43141	B	12851	1	996	
12774	43142	A	12852	1251	1424	DSPRGEAES*A*LPEKLLEMSG NRLVDNKDPGKKQTQRRIPHSP SQIPVPLPEIWCT
12775	43143	A	12853	1	1121	
12776	43144	A	12854	189	621	
12777	43145	A	12855	2207	2308	
12778	43146	A	12856	1	762	
12779	43147	A	12857	1	678	
12780	43148	A	12858	3	496	
12781	43149	A	12859	107	258	NALGKRTSFTNRNFLASGRFLD SVTYARRLQQYPAPL*KTAI*SF SLLNH
12782	43150	A	12860	2	410	SPDPWVSTYKSTCHIAQEIAEKI HLRNQYERKGE*APRSNLMSE DANGGAPNPWLFEETIGW GFDEIRQQQHNIIR*QDAGLDA LSSIISRQKQMGIEIGNELHEQN EIIDDLANLMENTDEKLNETR RVN
12783	43151	A	12861	3	1402	

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12784	43152	A	12862	1	711	MAPDPWFSTYDSTCQIAQEIAE KIQQRNQYERKGEKAPKLTVTI RALLQNLKEKIALLDLLRAV STHQITQLEGDRRQNLDDLVT RERLLASFKNEGAEPDLIRSSL MSEEA KR GAPNPWLFEEPEETR GLGF\DEIRQQPQKII\QE QDARL DALSSISSQKQMGQEIGNELD EQNEIIDDLANLVENTDEKLRN ETRRVNMVDRKSASCGMIMVI LLLLVAIVVVAVWPTN
12785	43153	A	12863	1	936	
12786	43154	A	12864	1	1023	
12787	43155	A	12865	1606	2238	
12788	43156	A	12866	3	347	
12789	43157	A	12867	1	1665	
12790	43158	A	12868	1	589	
12791	43159	A	12869	19	1677	
12792	43160	A	12870	1	906	
12793	43161	A	12871	1	228	
12794	43162	A	12872	1	320	
12795	43163	A	12873	1	398	TSKAPGAQGEQGFEECFLAVAL AGRPLPSLWALFQATTPV\LQG LKEAFFRPEVP\LRRDLPLLLFR\ TQTS DPAMLP\TMIGLLAEARR AGCLSYQTSLSVSDGETWHVMG ISSLLP\SLEG\WKQ\HVTEAFQF HF
12796	43164	A	12874	3	322	SAGGSGRRTLHSRTMAQFVRN LVEKTPALVNAAVTYSKPRLAT FWYYAKVELVPPTPAEIPRAIQS LKKIVNSAQTSFKQLTVKVTT G*MKTDVHNRKCLPLGFF
12797	43165	A	12875	91	425	WTFHPTTMAPFVRDLGEKTPA LGKAAVTYLPRLAAF WYYH\ QVELVPPTPA\EIPRAIQSLKKIV\ NSAQTSFKQLTVKEALLNDL VATEVSTWFYVREITGKRGIIG* NV
12798	43166	A	12876	179	664	HSSPAVPGRTDFSHSQNPWPQF CPVTLVGEDPRALVNAAVT/YT RKPRIGLHF WYYA\KVELVP\PT PAEIPRAIQSLKKIVNSAQGT LANSSHVKEAV/L*NGLVATEV\ LMWFLCSERLLGKRGHSLGYG CFEDQS FNIIWFILFILELFVW DHVVDPC
12799	43167	A	12877	25	164	
12800	43168	A	12878	2110	2260	
12801	43169	C	12879	32	1429	
12802	43170	A	12880	172	322	

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12803	43171	A	12881	1060	12039	
12804	43172	A	12882	1	810	
12805	43173	A	12883	3	146	
12806	43174	A	12884	1	1211	GPQDGNQQPAPPEKVGWVRKF CGKGIFREIWKNRYVVLKGDQ LYISEKEVKDEKNIQEVFDLSD YEKCEELRKSKSRSKKNHSHKFT LAHSKQPGNTAPNLIFLAVSPEE KESWINALNSAITRAKNRILDE VTVEEDSYLAHPTRDRAKIQHS RRPPTRGHLMVAFASTSTSDGM LTLDLIQEEDPSPEEPTSCAESFR VDLDKSVAQLAGSRRRADSDRI QPSADRASSLSRPWEKTDKGAT YTPQAPKKLTPTEKGRCASLEEI LSQRYAASAHTLQLRAEEPPTP ALPNPGQLSRIQ\DLVARKLEET QELLAEVQGLGDGKRKAKDPP S/RSPDSES\EQLLL\ETER\LLG EASSNWSQAKRVLQQVREL RD LYRQ\MDLQTPD\SHL\AQTTPH S\Q\YRKSLM
12807	43175	A	12885	617	1041	TTLINPGGPAPLLSLPTSSITGFT TFYHPNLKPLRTCPS*VQAWPC RHPI*SRDYQRDAEPTTCISKLL GENIRRDEFWKVQIKARSGETE QNPRSTAFAGELPLANREELN LLNKGILPLCDQRQEIESECAF TIFCAGDANCFPPSPHLPLTAL QQRPCGLSGSASKEAWGNSLV CGPRGDTLPMAIAKPHRSASKH STLHQYPTPPRSLCHQHRDEQP TNHLQTLNTIPAWIHTKWVPG DHINKPWRSCSSSQSAYLFYHW LHYFLPPKLKTSKDLSILSAGLA MSAPHLIFRVSAITSNSSCKPSS TSKACEELFKEHQCLGSTDPIH IQGGAPFSAVSPQRLVLRGSQD GSHMVRPRLPFPDSAGLANFHL FSKLFLD
12808	43176	A	12886	1	606	
12809	43177	A	12887	174	350	VSWRFVQVFI*VAGGSRICAAA GLSPGTPPPCATSLIGACSLIFIP RLLSLFCGDEAL
12810	43178	A	12888	3	265	
12811	43179	A	12889	1	1209	
12812	43180	A	12890	53	369	VAHQEKGIAEPGLRPTGDSRQT HRRLDVERSTSVQEHMGGCHF SPFPEREKLSLIRGIHQAPAL WQATDQWIDIEF/GLGQPEESL GR*ITRLQGKTILPFGSPIC

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12813	43181	A	12891	1	345	
12814	43182	A	12892	2	451	
12815	43183	A	12893	2	286	
12816	43184	A	12894	217	1071	GENPRSENTRLATILEVACCHF GSSPPPS\GSSGRKDPPLTFGDH EGTSKAEPSPALGLTPEHKGNV GHAARIQQPGPLSLWSRKAGK GVQDCYIDLKQIKIDLDKFSDN PDGYIDVLQGLGQSFDLTWRNI MLLLNQTLTPNERSATITAARE FGDLWYLSQVNDRIAAEKREK FLTGGQAVPSVGSWDTSEH GDWCCRHLITCMLEGLRKTRK KPMNYSMMSTITQGKEENPTA FLERLREALRKHTSLSLDSIEGQ LILKDTFITQSAADIRK\NFKSPP
12817	43185	A	12895	1	756	
12818	43186	A	12896	473	1015	
12819	43187	C	12897	152	322	
12820	43188	A	12898	146	1079	PPCAVVCLLWIAAVYCLSTTFC APLCGQNTWLPKPCRHNRAA SNASVSLSTVTLFSRLS*PQRKG SELLDSSGPLPASPSLPLCSGVS PRAGLGSAPKIPFLGIREAKN PRSENTRLATILEAGHRHLGTS VSKDHPVTFWRPRRDLQSDLK QIKIDLGKFSDNPDGYIDVLQEL GQSFDLTWRDIMLLLNQTLTPN ERSATITAAREFGDLWYISQVV AAVAGLVSEAVKIIQGSYCVDI HDVNGILTAKGDLWLSDNHLL KYQALLLEGVLRRLRTCATLNP ATFLPDNEEKIEHNCQQVIAQT
12821	43189	A	12899	189	1798	

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12822	43190	A	12900	194	1729	NPAAQTPFFVVKKGKRGAGL LHRQYPLRLEAKQGLKKIVKDL KAQGLVTPCSPCNTPTLA VQK PNGQWRLVQDLRIINEAVVPLY PAVPNPYILLSQIPEEA EWFTVL DLKDAFFCIPVHPDSQFLFAFED PSNPMSQLTWTVLPQGFRDSLH LFGQALAQDLSQFSYLDLVLQ YMDDLVLVTHSETWCHQATQA LLNFLATCGYKVSQNAQLCS QQVKNLGLKLSKGTRALSEERI QPILAYPHPKTLKQLRGFLGITS FCRIWIPRIKAVKLQIILQMEPQ MQSMTKIYHGPLDRPTSPSSNV NDIEGTNASDFPFLSQVLEQVV SPKGSKEAQCCVLRPLGCESNL KQIKIDLGKFSDTPDGYIDVLQ GLGQPYYL TWRDIMLLLDQTL TPNERSAAITAVREFGDLWYLS QVNDRKITEEREQFPTGQQAVP SVDPHWDTESEHGDWCHRYLL TDVLEGLRKTRKKP\IN*SMISTI TQGKEENPTAFLERLREALRKH
12823	43191	A	12901	1	642	
12824	43192	C	12902	54	254	
12825	43193	A	12903	32	221	NGVGHNRMG TNGSGGGEWGP PAPASA*GCSLASAFASAPRW WFEMGCRGIYDAQQVALSRSF
12826	43194	A	12904	203	538	
12827	43195	B	12905	131	536	
12828	43196	A	12906	1	1251	
12829	43197	A	12907	38	475	ESERRGEFCLCKIISEQGRAVCV EDEQTSHFALTGNNGIYRKSQQ QWQQELSDLARDPPAQCSAGP VGDDMFHWQATIMGPNDSPYQ GGVFFLTIHFPTDYPFKPPK VAF VTTRIYHPNINSNG\SI CLDILRSQ WSPAFNQFPKSS
12830	43198	A	12908	282	849	QSCPAAGIIKSFGRTFEHTPREV RKPDDKHTLLALKRINKDLSDL ARDPPAQCS\AGPV\GDDMFHW QATIMG\PNDSPYQGGVFFLTIH FPTDYPFKPP*GLHFTTRFY\HP WINSKWAAFCLRYS*DSQW\SP ALTFSKVLLS\CSLL\CDPNP\DI DPLVPGDWHGSY*NRTGDKYN RISREWTQKYAM
12831	43199	A	12909	1	397	
12832	43200	A	12910	245	535	
12833	43201	B	12911	68	333	
12834	43202	A	12912	265	562	

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12835	43203	A	12913	1	872	MVNTECQLDWIEGCKVLILGVS KEASQGLGGRSRGRNVRQSTD ADIRPTSEKDARSLMTRQEDN ISVDQRGFLSGVQKKGSCANGL KGSVCGGFYWMAVIRMGVG KAMGLNLKLGKFEIKKGYLKG CRDSLRLSPTGFGKFTATSHEV AATVPIKVVLELTQTHKILRG VFAHLTSCQLHSLPPGSSMDS AKARRQLQVAGQGHSLVKQK GFHVEAPDHPVQLSDISCKSY RWGHKLIKINFLIPPLWYYDL EEVKREQSEEKQAKIMADIIG DALNAQKAFKGNPKGHKPLPF SAGQMENW*CPECPKSI
12836	43204	A	12914	7	231	
12837	43205	A	12915	1	223	MEILTTCDKGLIFTGNTRKSETS TSECTCPLDINCSLHSPSPSDE ETQHHTDSLHVRPRKGYLLCIY HIPDIVAVMVNIQCQLDWIEGC KVLFLGVSVKVLPEINTGISGL GKADPPSIWKS*QHVTKDLYLQ VILENQKLVPANALVRWILTVP FPTLLRALQMRKHSTTLTVCMS DRGKDIYCASTIYQI
12838	43206	A	12916	1083	1273	NKMSFKLKEDCFGRSKCNL*T* CWKSINEA*K/DLELQLQFGPQE KLFALEQQVKKLNLVPDA
12839	43207	C	12917	1	1506	
12840	43208	A	12918	3	1219	
12841	43209	A	12919	1	735	
12842	43210	A	12920	2	94	
12843	43211	A	12921	362	460	WLILSVNLIGLKDAKYCSCVCL *GCCQRRLTF
12844	43212	A	12922	1235	1474	
12845	43213	A	12923	1	250	
12846	43214	A	12924	1	261	
12847	43215	A	12925	2	85	
12848	43216	A	12926	1	291	
12849	43217	A	12927	1	321	
12850	43218	A	12928	1	370	
12851	43219	A	12929	1	684	
12852	43220	C	12930	1	210	
12853	43221	A	12931	2	91	
12854	43222	A	12932	1	243	
12855	43223	A	12933	2	353	WMKLETHLSKLS*GQKTKHRM SSLIGSTDQQRLVVKNVQGRVC PGSTGHGAWAWTAMRKVDS PLQTGSLRPGWCRQVGSHARS GSAEAAGNPGLHPGICPRVEDG IQVAENFPEV

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12856	43224	C	12934	1	289	
12857	43225	A	12935	1	1194	
12858	43226	A	12936	140	237	
12859	43227	A	12937	1	292	
12860	43228	A	12938	2	178	
12861	43229	B	12939	1	1245	
12862	43230	A	12940	2	241	
12863	43231	A	12941	1	675	
12864	43232	A	12942	1515	1920	TPTNLQEKNKQPHQKVGE GYEQTLLKRRHLCSQKTHGKNAHH HWPSEKCKSKPQWIPSISHQLE WQSLKSQETTGTWMKLETHLS KLLQGQKTKHHMFSLIGGNRT RRTHGHRKGNITLWGLSDSV NCASSSG
12865	43233	A	12943	608	891	
12866	43234	A	12944	1	3956	MGSCPGGFTAIFYQRYKEELVP FLLKLFQSIEKQGTLPNSFYEAS IILIPKPRDITTKENFRPISLMN IDAKILNKILTNRQQHIKKLIHH DQVGFIHGMQGWFNIRKSINVI QHINRTNDKKHMIISIDAFAF DKIQPFMLKTLNKLGTWMKL ETILSKRSQGQKTKHRMFSLIV NIPTIKILIKQNMAMETLCPIF KLEGDTMDNPIANRRVRTAVP TSVVCLHVGTEPEARLPHGPMI TAQSPFG
12867	43235	A	12945	1	855	
12868	43236	A	12946	1	255	
12869	43237	A	12947	273	3484	
12870	43238	A	12948	3	377	
12871	43239	A	12949	85	333	
12872	43240	A	12952	22	308	
12873	43241	B	12953	30	383	
12874	43242	A	12954	3	448	
12875	43243	A	12955	1	453	
12876	43244	A	12956	3	491	
12877	43245	A	12957	2	749	
12878	43246	A	12958	155	637	
12879	43247	A	12959	1	510	
12880	43248	A	12960	2	559	RPHASAHASGRQRSQDVTTMV WALLLLTLLTQGTGSAQSAL TQPPSASGSPGQSITISCTGLIND VASYNFVSWYQQHPGKAPKL MIYEVTKRPSGVDPDRFSGSKSG \NTASLDHLWGSRLDEADYYC LLICRRLHPGGGIRRWDPRTV LGSARPTPTVTSGSRPSSEGAP SQQGHTSVSDQ

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12881	43249	A	12961	1	1958	MSVQRKDRVRTQQGGSVASSM LTQEPVGSVALGQSARDRDPD CSDSVSVYLMDTWQSVHGF SAATLGDPPELPMHPEGSEASY ELTQPPSVSVSPGQTARITCSGD ALPKQYAYWYQQKPGQAPVL VIYKDSERPSGIPERFSGSSSGTT VTLTISGVQAEDEADYYCQSAD SSGTYPTVTQADRETPTHQYSR HPSYAKGFVFLWGSWAQSALT QPASVSGSPGQSITISCTGTSSD VGSYNLVSQYQKPGKAPKL MIYE/VDSKRPSGVSNRFGSKS GNTASLTISGVPLRDEGADYY CCSYAGSVASYELTQLPSVSVS PGQTARITCSGDVLGENYADW YQKPGQAPELVIYEDSERYPG IPERFSGSTSGNTTTLTISRVLTE DEADYYCLSGDEDNPSVTQAD GEDTGIRSHYEGTLALYLYPEP VKATCSVTSYVLTQPPSVSVAP GQTARITCGGNNIGSKSVHWY QQKPGQAPVLVYDDSDRPSGI PERFSGSNSGNTATLTISRVEAG DEADYYCQSLSTLGPCTLGDTV LRPMIYSVSIQASGVDPDGFSGSK SGNTASMTISGFQAEDEADYYC NSHRRGSVVSELTDPAVSVA LGQTVRITCQGDLSRSYYASW YQHPGKAPKLIYDGH
12882	43250	A	12962	2	367	
12883	43251	A	12963	2	376	QTYSLRRATPRHIIVGFTKVEM KEKVLRAA/NKPIRLTVDLAET LQARKEGGPIFNILKEKNFQPRI SYPAKLSFISEGEIKSFTDKQML KDFVTTRPALQELLKEALNME RNNQYQPLQKHAKW
12884	43252	A	12964	2	1178	
12885	43253	A	12965	1	732	
12886	43254	B	12966	99	716	
12887	43255	A	12967	1	1011	

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12888	43256	A	12968	3	1263	GRTIQTKGKEV\ENFEKNLEECI TRITNTEKCLKELMELKTKARE VREECRSLRSQCDQLEERSAM EDEMNMKQEGKFREKRIKRN EQSLQEIW DYVKRPNLRLIGVP ESDVENGTKLENTLQDIIQENFP NLARQANVQIQERQRT PQRYSS RRATPRHII VRFTKVEMKEKMG LLVPNWTNHSPLFRILFDYKG FCRFGTTHQTGFSPAGANQRGP LAATLSGPGGEGQSAVARLTGL IGVPESDVEKETKLETTLQDIIQ ENFPILARQANVQIQEIQRT PQR YSSRRATPRHII VRFTKVEMKE KMLRAAREKGRVTLKGKPIRL TADLSAETLQARREWGPIFNIL KEKNFQPRISYPAKLSFISEGEIK SFTDKQMLRDFVTTRPALKELL KEALNMERNNRYQPLQNHAK
12889	43257	A	12969	1	1392	
12890	43258	A	12970	1	1224	
12891	43259	A	12971	1	970	
12892	43260	A	12972	1	954	MDGDLHKGVA VFWPPDAAGG HTCCSRMVCRSL LGGAQWKFH SFRCRIRFELILHMIQERN SINIS QKDVHTETPSETHHHQRPKVD KSMKMRRNQCKKAENSKNQK ASSPPKEHNSWRAREQNWTEN EFDKLTEVGFRRWVITNSSELK EHILTQCKEAKNLEKTLEELLT RITSLEKNINDLMKLKNTA*EL REAYTSINSQISQAEERISEIEDQ LNEMKHEHRIREKRMKRNKQS FQEIWDYVKRPNLRLISVPESD GENGNK*ENILQDIIQENFPNL ARQANIQIQEIQRT PQRYSSRA TPRHII VRFTKV
12893	43261	B	12973	1	1346	
12894	43262	A	12974	1	318	GSRGELLLSLCYNPSANSIIVNII KARNLKAMDIGGTS DPYVKVW LMYKDKRVEKKKT VTMKRNL NPNFNES\FAFDIPTEK\LRETTII ITVMDKDKLSRNDVIGK
12895	43263	A	12975	17	389	SWGPHCTHKLKKSFSLMPMET DAMDRERM/RGSKKDV/R*VLG GCAATWTPRAGGRQQSPGTTV DKREDTPDCAMCDQSTSHPIISA SSPSLLPGSSFTTQT FPPGIAHYR ASFLIVAYYPSNKNKSK

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12896	43264	A	12976	84	282	GEGQVGWPQGEVQQDEEVIEE VGA*DAGSGYQEEEGPQSLRR EVVGVELVVGADPSGEGPKED
12897	43265	A	12977	1	1179	
12898	43266	A	12978	3	634	
12899	43267	A	12979	234	619	CYVVQEVLPSSLCHCLVICSRP GRTAEWPPG*GF*SPPHRGWW GC*GHD/HRRGTSIFPTH/V*SPP ASYPGSLCRPGGQEEREREGEW QREGRRPGTR*CGAEAEARGW RAAAKATAVAGARNRRPGISG
12900	43268	A	12980	1	1182	
12901	43269	A	12981	3	763	
12902	43270	A	12982	32	949	
12903	43271	A	12983	1	1299	
12904	43272	A	12984	1	1176	
12905	43273	A	12985	1	421	
12906	43274	A	12986	81	404	VKFGPEIWCRRSDQGRGGVGT SLGRSIPCPPALCSVRKIYLRPL VLRPTSPRNISPILNRDPTVQLT WQPLPEPELELWPKAL*LTPSQIY SA*RLKTDAARLPRKPPR
12907	43275	A	12987	1	378	
12908	43276	C	12988	1	751	
12909	43277	A	12989	302	629	ICLSYPAPPCKRFPHYTRVLYH* SLFNENTSQSCFTSR/WKLESFT TRAIERHQIPLL*ATLTLIRWLD KKLAFQLLSLTASFSPSYQSLPP TPPLKLPPHSSHTRQMV
12910	43278	A	12990	14	380	
12911	43279	A	12991	189	608	QSDLSASQHGLFPLATEVRSSG AASCPDSDSICPAPTAPGRATP PQANCWASEGTLRYQALPGNR APVSQVSQAGGANLCVQQPKK HLTNFKSGKRPLFTLFSNLQGP RSRPVAFLSKQLDLTVLGWPSC L\VQQLLPP
12912	43280	A	12992	1	513	
12913	43281	A	12993	2	462	WSMGLPRRSGCVSLQPLSQEDL GRSQESLGPFEQQLWEWLPEQ LPRSFIALGSLSYFPRTLMLNS WPLCLRKGWYL/SLYLPFQVGL PSTVPWPLILPSKVPEEEGQLQS TLPCGIKLLPVFTSHHAF LGVFC NQWVSDVFLALFLMKLLGAQ
12914	43282	A	12994	59	213	
12915	43283	A	12995	1	1159	
12916	43284	C	12996	1	864	
12917	43285	A	12997	1	1155	

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12918	43286	A	12998	879	1163	SRRLPLFMGLVRVLCKMSGGRP LCFPGGHWIVFLWGGTVLWLW T*SPHWHRKAN*DLFLQKLPRL *VSHQCDPLPVCHLWNCFLFL PLWGPPAG
12919	43287	A	12999	1	179	
12920	43288	C	13000	1	410	
12921	43289	A	13001	42	365	FGLRLSLAPPFCMFPLTT*HS*P SVLPASFPAALGIPQARAVTPFV SP*LLASLSFWAPPCSLCLDASV *HGSHLWHAQSSCRLRWSFGL AASQMQPPEPSHGPRRK
12922	43290	B	13002	1	741	
12923	43291	A	13003	8	265	
12924	43292	B	13004	1	646	
12925	43293	A	13005	1	1158	MKLVTIFLLVTISLCSYSGYWPE NEQMSVGGGDDNGEVLYSALR GASEVIGQCQSSATKPRRSGKE SVREPWARVPGALGVGVREID QTLGIDTILCHHHERLLQSHYGI HKSSLMSVGNSSQVAALYQLNV YVVADTVGLIISNSILDSVQPN YCSNKHIELRTQVGGARNLRA NSPMTSSYNQESSMENVVSALS LLTVESPTSMFDYCDLSLERVK SALDIFSMIITYVTFFLGLAGNG LVIWVVGFMSTVNTCLPSDP HLHGPLTCDPVANLVLEQLHTS KGNSGALEDLAFGNLFLCSLLD LQGNWWKVSPSLYNQYDLQ NETQGSHQLWKEIIPW*PSAFV V/SSGYWPENEQMSVGGGDDN GEV/RVFRPEGGFRGDRAVSFV SH*AEKIWEGISQRAL/VPEFQG LWEWV/CREIDQTLGIDTILCHH HERLLQSHYGIHKSSLMSVGNSS QVAALYQLNVYVVADTVGLII KSNSILDSVQPNYCSNKHIELRT QVGGARNLRANSMTSSYNQES SSSMENVVSALLTVESPTSMF DYCDLSLERVKSALDIFSMIITY VTFFLGLAGNGLVIWVVGFM SCTVNTCLPSDPHLHGPLTCDP VANLVLEQLHTSKGNSGALED LAFGNLFLCSLLDLQGNWWK VSPSLYNQYDLQNETQGSHQL WKEIIPWHQTLVTTAHFFFGFF

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12926	43294	A	13006	3	371	AGARFNVRSR*RNDRVRPHRD VYSLQGR LSDHSPTFGGCQTQ GRLPWSFTLSGKFRFSGEGATT SPAHKNFQTPEPQWP GIPPEPPP TGACYTCRKSGHWAKECPQAR IPPKPHPICV GPH
12927	43295	A	13007	77	332	RWKKNCLSPPRMS*QR*WKP* MQQAACSVGETQP PCTQVK*T ALLLTQSLFGGLFTRTHMKFGA VTRIGGPPLGDQSPVLLLFAP
12928	43296	A	13008	1048	1349	RVVEQDDAERLFRRFRAA/GDL PYGAFGEIF*ETQCQEMQQLAE DHASVTMISLEAWRLYRKMVC RIWASMLRLSVCHLCAPKR VV SLISRNGYHLP GSIH
12929	43297	A	13009	213	499	PEQRTSHRQQRRQPP PQSRS*P FCPSLPRSALSFLCDGYAAP* AYRE*IPVTEDHFAE*/ISWCPC *YREALGQLLAKMRR*SARKRF QLSP
12930	43298	A	13010	2	431	
12931	43299	A	13011	2	367	
12932	43300	B	13012	1107	2083	
12933	43301	B	13013	1	627	
12934	43302	A	13014	712	2671	AHVGRGST*ALPRAMGSDAF*C PLQ*MTPASFGSKAALS RVFIKE ALMMEDPCVVRKPLSAHMTA WWCRIWKAYLESV
12935	43303	A	13015	50	1362	WEQIPHGLVLSLQQLPRRSGSIS LQPLSQEDLGRSQSESLGPEFQ GLWQWLSDFQT*HQWFVSGFQ AFSDRLKAALSASLLRFGDSD WLPSSSACKCLMLGLHFVIVGN ICATLKEYSSMLHLDVTMKK NGEKRTLQKRKKGMPPHPAY EDLNIAAITLPANVVLHQPSGFR TSGQLDPVWWSLDTDAHEIWC QDPGLGSGDFPWEITPLSSYSLL HEKDPPTTSGPQTDQPKKHLTN FKSKTKETGFIHGPKTPAPVTD WEGSLPLVFNHCRDTSIIHPCF KGVRRRDACLGPSPLAASPAF LEKGQDLINLAFKVYNNRKKL QFLASTVRQTPATSPAHKNFQT TEPQQPGVPPEPPPTGACYMCR KIWPLGQANARSPGFLLSRVPS VWDPTGNRTVQLTWQPLPEPL ELWPKALCLTDSFPDLLGLAA
12936	43304	A	13016	1	507	
12937	43305	A	13017	5	271	
12938	43306	A	13018	1	618	

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12939	43307	A	13019	1	429	
12940	43308	A	13020	1	3567	
12941	43309	A	13021	1	353	
12942	43310	A	13022	1	338	
12943	43311	A	13023	1	1175	
12944	43312	A	13024	3	326	
12945	43313	A	13025	150	494	PSPSLGYLVGTRGTALRL*DAR AAMRPFDPSTLLPTCWDYWTY AGSLTPPLTESVTWIIQKEPVE VAPSQLSAFRTLLFSALGEEK MMVNNYRPLQPLMNRKVWAS FQATNEG
12946	43314	A	13026	2	975	DSREHHPLQTGVSGNRPKMLG RNTWKTSAFSFLVEQMWAFLW SRSMRPGRWCSQRSCAWQTSN NTLHPLWTVPSVPGGTRQSPI NIQWRDSVYDPQLKPLRVSYE AASCLYIWTGYLFQVEFDDA TEASGISGGPLENHRYLKQFHF HWGAVNEGGEHTVDGHAYP AELHLVHWNSVKYQNYKEAV VGENGLAVIGVFLKLGAAHQT LQRLVDILPEIKHK\DARAAMR PFDPTLLPTCWDYWTYAGSLT TPPLTESVTWIIQKEPVEVAPSQ LSAFRTLLFSALGEEKMMVN NYRPLQPLMNRKVWASFQATN
12947	43315	A	13027	1	1233	
12948	43316	A	13028	761	1000	IPFISFSCIALARTSNTMLNKSG ERGHPSLVVPVFIGNASSFCPVSM ILAVGLS*IALIILRYVPSIPNLLR VFSMKGC
12949	43317	B	13029	697	1527	
12950	43318	A	13030	1	1695	
12951	43319	A	13031	434	925	VAKIFSHFVCCFLFTLMVVSFAV QKLFSLIRSHLSILSFVAIDFGVL DMKSLPMPMS*MVMPRFSSRV FIVLGLTFKSLIHLELIFV*GVRK GSSFSFLHMASQFSQHLLNRE SFPHCLFFSGFSKIR*L*ICGIISE GSVMFH*SISLFWYQYHAVLVT VAL
12952	43320	A	13032	1124	1234	KITPKKQIRQSPNLTQNTGQQ*S LQLWEHFQISTHF
12953	43321	A	13033	929	1261	
12954	43322	A	13034	1118	1354	IPFISSCLIALARTSNTMLNRSGE RGHPCLVPVFKGNASSFFPFSMI LAVGLS*IALIILRYIPSIPSLLRV FSVKGC

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12955	43323	A	13035	2	348	HQHLLFPDFLMIAILTGMRWYL IVVLICISLRASDDEHF/YHVS GCINVFF*EISVHILRPLFDGVV* FFLVNLFKFFVDSGYEPFVRWV DCKNVLPFCRLPVHSDGSFFCC AEAL
12956	43324	A	13036	578	712	LISNFSKVSQYKINVPKSQAFLY TKNRQTAKS*VNSHSQLLQRE
12957	43325	A	13037	1	1833	
12958	43326	B	13038	1	1587	
12959	43327	B	13039	1	1851	
12960	43328	A	13040	1349	1444	
12961	43329	A	13041	953	1277	MVLPRFSSRVFMVLGLTFKPLI HLELIFV*GVNFV*GSSFSFPHM ASQFSQHLLNRESFPHFLFLSG LSKIR*L*MCGIIEGSLVLFHWS ESLFWYQYHAVLVTVL
12962	43330	B	13042	804	4236	
12963	43331	A	13043	1	744	
12964	43332	A	13044	137	797	
12965	43333	A	13045	210	418	
12966	43334	A	13046	1	927	
12967	43335	A	13047	1	1415	MGFLGTGTWILVLVLP IQAFPK PGGSQDKSLHNRELSAERPLNE QIAEAEEDKIKKTPPENKPGQ SNYSFVDNLNLLRAITEKEKIEK ERQSIRSSPLDNKLNVEDVDST KNRKLIDDYDSTKSGLDHKFQ DDPDGLHQLDGTPLTAEDIVHK IAARIYEENDRAVFDKIVSKLLN LGLITESQAHTLEDEVAEVLQK LISKEANNYEEDPNKPTSWTEN QAGKIKEKVTMAAIQDGLAK GENDETVSNTLTLTNGLERRTK TYSEDNFRDFQYFPNFYALLKSI DSEKEAKEKETLITIMKTLDIV KMMVKYGTISP EEGVSYLEGL DEMIALQTKNKLEKNATDNIS KLFPAPSEKSHEETDSTKEEAA KMEKEYGSLKDSTKDDNSNPG GKTDEPKGKNRSPWKPIRKNI EWLKKHDKKGNKEDYDPFQR* EVSFNNKADAIYVEKGILDKEE AEAIRIYSSL
12968	43336	A	13048	1	879	
12969	43337	A	13049	3	640	
12970	43338	A	13050	134	382	DGRQLRRGSLGGALTGRYLLP NPVAGQAWPASAETSNLVGMR SQALGQSAPSLTASLPCVSKCW ENIPPWMN/WPPH*IKHIQS
12971	43339	A	13051	87	500	

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12972	43340	A	13052	1	1356	
12973	43341	A	13053	1	447	
12974	43342	A	13054	3	107	
12975	43343	A	13055	3	2377	
12976	43344	A	13056	1	2193	
12977	43345	A	13057	1	2724	
12978	43346	A	13058	253	490	QSSIPAIMSSFLGTGAETMPVPL GAGMRRTSTEPQRVCFTGIIF KTSSLREAPRKSMISDSLMGR E/WMPVTKLGRLVKDMKIKSLE EIYLFSLPIKESEIIDFFLGASLKD EVLKIMPVQKQTRCGSVLVRLI PAPRGTGIVSAPVPKLLMMA GIDDCYTSARGCTATLGNF/AK ATFDAISKTYSYLTPDLWKETV FTKSPYQEFTDHLVKTHTRVSV QRTQAPAVATT
12979	43347	A	13059	1	819	
12980	43348	A	13060	1	623	MARRKNGKWESEIIDFCLGGSL KDEVLKIMPVQKQTRAGQCTR FKAFAIGDYNHIGLGIKCSK E/LATAIRRAILAKLSIVPVCRG YWGNIKSKPHIVPCARGTGIVSA PVSCKLLMMASINDCYTSARG CTAILGNFDKATFDAISKTYSYL TPNLWKETVFTKSPYQEFTDHL VKTYTRVSMQSTQAPALAKLP RVAVQPRAEV
12981	43349	A	13061	1	949	KWRITPVPTGRP/GGPGGPGMG KPRCF/RGEVFGIVIRAGSPGPG TGPGRG\GEAAGAKAED*EWM PV\TKLGRLVKDMKIKSLEEIYL FSLAIKKSEIMSFLLGGLLSRDE VFE*LCPVQEQTTRAGQ/RATRF KAFVALTTLGTTNG\HVGLGC* VPPREVATGNSWGPFILGQALH SSPVRRGLLGGTKNSAKPPTLV PWQR*PRAACGLCAGYAFIPLQ PRGQLASVSA\VPV\KLLMMA GTDG\CNNSQRRGCTATVG\NL AKATTFDAISKTYSYLTPDLWK ETVFTKSPYQEFTDHLVKTHTR VSVQRTQAPAGATT
12982	43350	A	13062	92	265	SFELFADKVPKTA/WLDGKHVV FGKVKEGMNIVEAMERFGSRN GKTSKKITIADCGQLE

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12983	43351	A	13063	2	797	NRVLLAMVNPTVFFDIAVDGEP LGRVSFEVRGLDTKK*LLI*SIK LC*QIG\LFADKVPKTAENFR/A L*SIEEKGFGL*GVPCFHRLFPR VLCVRGGDFHTAINGTGGKSI YGEK\FEDENFILKHTGPGILSH GKMLDPNTNGSQFFICTAKT\E WLDGKHVVFGKVKEGMNIVE AMEA\FGSRDCKTSKKITIA\DF GQLRIKFDFVFLSLTTKIISFCAL LSGEHPLHPIWLGVILESMWLS LAVPFWVPCFPCSLPCLAGLQS
12984	43352	A	13064	1	720	
12985	43353	B	13065	98	2074	
12986	43354	A	13066	596	841	
12987	43355	A	13067	66	326	
12988	43356	A	13068	1	441	
12989	43357	A	13069	2	325	WCPSQAAAAGARATRDMPEGS MTCLCRALWWLFSWLKVHR*R QGQQGRPAAPSAGPAKPTPTRN SSWLLLAAPVPTRTSPSTPPCKL REPAPALASPERGSHSAAVG
12990	43358	A	13070	38	1066	
12991	43359	B	13071	1	324	
12992	43360	A	13072	2	680	
12993	43361	A	13073	2	165	
12994	43362	A	13074	1	1110	MASLLKSARPQTHWKEETPETS KRLKEQTPDIPSLRAVTLIAKVH SFIPEVCETKNPLEGIHSGHILAP NVGPSPSRRQARVQVFENVSVR ATKSDLPQSSLWSRRKTTVSAA ASKKTSKEISKGPQKPPGY/PVT SPSSCRGRGIWPNP/EYMSTSPS LI*/SIKVDLGKISDDPDRIYDV LQGLGQTLDSLWRDVMLLLDQ TLAFNEKNAALAAAEFGDTW YLSEVNDRMTAEERDKFPTED GEPIKDCQIIIVQTYAAQDDIL EVPLANPDLNLYTDGSSFVENG IRRAGYAIVSDVTILERPNIIFRA IQQVVKACEVCQRKNPLVHPP NYLYKTLNLTHSLNQSNSPLA NDCWLCSSLSVSAEPYN

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12995	43363	A	13075	450	1776	RGGRACLRP*AA/SPGPSTP*WP PPRGVQAAAILSGPPRPAPPKG AASQRLCGGFVEARQAWVGRR GGRRGVPVGETQPPPSVIQPPSRG AG/PRDQQPAMPEPPTPSVGSC AARASQISAAPCSTAPSPIDHPR AEECRRTVWDWQAAPPAAQV RDPLGEASWAPESGGDVENLY VLLRDCKYTSQHPVSSSGSVNA PIDTLYLATLLRDCKYTNRHSV SSSRFVNTPISTVSSEFANAPID TLHLATLKEETPNTSEHQKEQT PDMPPLRRTVTVTARVRGFILDV SETKNPPIPDTFWRPRWDLRQS PSNQTLAFNEKNAALAAAEF GDTWYLSQVNDRMTAEERDKF PTEFIPSSGFLVLLTSRMKPQTF AASVTALKDGVSRVCSFRCVQS FFLPSADWCYKPLARYRALIG AFLQSAHWCYKPLARHSVLI GAFTNL
12996	43364	B	13076	1	1999	
12997	43365	A	13077	3	469	
12998	43366	A	13078	224	410	
12999	43367	A	13079	478	675	
13000	43368	C	13080	55	237	
13001	43369	A	13081	109	239	
13002	43370	A	13082	2	88	
13003	43371	A	13083	2	178	
13004	43372	C	13084	278	460	
13005	43373	C	13085	50	217	
13006	43374	A	13086	3	251	
13007	43375	A	13087	1	759	
13008	43376	A	13088	2	604	
13009	43377	A	13089	1	558	
13010	43378	A	13090	3	1055	
13011	43379	A	13091	1	466	MDKFLDTYTLPRLNQEEVESLN RPITGAEIVAIINSLPTKKSPGPD GFTAIFYQRLISNFSKVSQYRIN VQES\QAFLYTINRQTESQIMSA LPLTIASKRIKYLGIQLTRDVKD LFKENYKPLLNEIKEDTNKWK NIPCSWVGRNIVKMAILPK
13012	43380	A	13092	2	848	
13013	43381	A	13093	458	625	
13014	43382	A	13094	482	745	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
13015	43383	A	13095	1	742	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGMQGWFNIRKSI NVIWHINRTKDKNHMIIISIDAE KVFDKIQQPFMLKTLNKLIDG TYLKILRAIYDKPTANIILNGQK LEAFPLKTGTRQGCPLSPLLFNI VLEVLARAIRQEKEIKGIQLGKE EVKPSLFADDVIVYLENPIISVQ NLLKLISNFSKIKYLGILTRNV KYLFKENYKSLLEIKEDTNK WKNIPCSWIGRINIVKMAILPK
13016	43384	A	13096	1	1458	
13017	43385	A	13097	2	1624	
13018	43386	A	13098	1	1095	
13019	43387	A	13099	1	2913	
13020	43388	A	13100	2	1887	
13021	43389	A	13101	1	972	
13022	43390	A	13102	1	873	
13023	43391	A	13103	1	1365	
13024	43392	A	13104	1	867	
13025	43393	A	13105	1	591	
13026	43394	A	13106	1	990	
13027	43395	A	13107	1	2109	
13028	43396	A	13108	1	843	
13029	43397	A	13109	1	1203	
13030	43398	B	13110	1	1221	
13031	43399	A	13111	1	1092	
13032	43400	A	13112	1	931	
13033	43401	A	13113	1	1293	
13034	43402	A	13114	1	544	
13035	43403	A	13115	3	718	
13036	43404	A	13116	693	1397	ARAEVKLSLFADDMIVYLENPII *ARAEVKLSLFADDMIVYLENP IISAQNLLKLISKFSKVSRYKINV QKSQAFLYTNNRQTESQIMSEL PFTIATKRIKYLGIQLTRDVKDL FKENYKPLLNEIKEDTNKWNI PCSWIGRINIVKMAILPKVIYRF SAIPIKLPMFTFFTELEKKNWLAI CRKLKLDFFIPYTKINSRWIKD LNVRPKTMKTLEESLGNTIQDI GIGKDFMTKTPKAMATKAKRA SAQQKKLPSE
13037	43405	A	13117	1	2814	
13038	43406	A	13118	1	1302	
13039	43407	A	13119	1	1542	
13040	43408	A	13120	3	1327	
13041	43409	A	13121	1	1023	
13042	43410	A	13122	1	1448	
13043	43411	A	13123	1	1038	
13044	43412	A	13124	3	1711	

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13045	43413	B	13125	1	1756	
13046	43414	A	13126	1	923	
13047	43415	B	13127	1	1515	
13048	43416	B	13128	1	1560	
13049	43417	A	13129	1	4032	
13050	43418	A	13130	1	2684	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSLDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDINRTLH PKSTEYTTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLS DHS AIKLELRIKNLTQSRSTPWKLN NLLLNDYWVHNEMKAEIKMFF ETNKNKDTTYQNLWDAFKAV CRGKFIALNAYKRKQERSKIDT LTSQLEKEKQEQT HSKASRRQ EITKIRAELEKETQKTLQKINES RSWFFERJINKIDRPLARLIKKR EKNQIDTIKNDKG DITTDPTIEQ TTIREYYKHLYANKLENLEEM DTFLDITYTLPRLNQEEVESLNR PITGSEIVAIINSLPTKKSPGPDG FTAIFYQRAIYDKPTANIILNGQ KLEAFPLKTGTRQGCPLSPLLF NIVLEVLAIRQEKEIKGIQLG KEEVKLSLFADDMIVYLENPIV SAQNLLKLISNFSKVSGYKINV QKSQAFLYTKNRQTESQLMSEL PFTIASKRIKYLGIQLTRDVKDL FKENYKPLLNEIKEDTNKWNI PCSWVGRINIVKMAILPKVIYR FNAIPIKLPMFTFFTELEKTTLKFI WNQKRARIAKSILSQKNKAGGI TLPDFKLYYKATVTKTAWYW YQNRDIDQWNRTEPSEIIPHIYN HLIFDKPEKNKQWGKDSL FNK WCWENWLAICRRLKLD PFLT P
13051	43419	A	13131	1	1149	
13052	43420	A	13132	127	329	
13053	43421	A	13133	1	1132	
13054	43422	A	13134	1	1020	
13055	43423	A	13135	803	2009	
13056	43424	A	13136	1	1944	
13057	43425	A	13137	1	1282	
13058	43426	A	13138	1	2423	
13059	43427	A	13139	1	2694	
13060	43428	A	13140	1	1195	

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13061	43429	A	13141	6082	6984	KLAQDRDALSPPLLFNIVLEVL ARAIRQEKEIKGIQLGKEEVKLS LFADDMIVYLENPIVVSAPKSPL RLISNVSKV*GYKINVQKS\QA FLYTNTDKQESQIMSELPFTT ASKRIKYLGIQLTRDVKDLFKE NYKPLLKEVKEDTNKWKNIPCS WVGRINIMKMAILPKVNYRFI NSMPSIPIKL\PMFTFFTELEKNYF KVHMEPKKSPHCQVNPKTKEQ SWRHQRYLTSNYILQGYSNQK STISMVLVPKQHGTTGKTEIIDQ WNRTEPSEITPHIYNYLIFDKPL LEKNKQWGKGFPI
13062	43430	A	13142	193	335	MVEEKLTLPKDEK*KSKQRSIY RKTQLQELKNKNEKRNRKNKW QVKTH
13063	43431	A	13143	131	427	
13064	43432	A	13144	1	360	
13065	43433	A	13145	2	376	
13066	43434	A	13146	1	360	
13067	43435	A	13147	2	376	
13068	43436	A	13148	3	469	
13069	43437	A	13149	224	410	
13070	43438	A	13150	478	675	
13071	43439	A	13151	32	161	
13072	43440	A	13152	1	1671	
13073	43441	A	13153	1	1656	
13074	43442	A	13154	62	1295	
13075	43443	B	13155	149	320	
13076	43444	A	13156	12	89	
13077	43445	A	13157	28	417	
13078	43446	A	13158	2	440	
13079	43447	A	13159	190	553	EIVREGASFSSIRHLRWSRHRKC RFSVKTLTGEDPSTLEV\EPS\DT IE\NVKAK\IQDKEGI\PPDQQL/ VSFAGKQL\EDGRDSLGYNIQ KGSLLLHPCV*DFRGGAKKKEE ESLYTTSPRKD
13080	43448	A	13160	3	415	PVK/VGA*GGQVINGVLAQV*L TVGPGVGRTHPVVIFVPECRIG RDILSSWQNPHTGSLTGRVRAF MVGKAKWKP*ELPLPRKTVNQ KQYRIPGGIAEIS/A/TIKNLRRG VVIPTTSRFNSPIWPVQKTDGS W*TAADY

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13081	43449	A	13161	5	405	HCCGIPHSIASEQDTYFMAKEV WQWAHAHGIHWSYHVPHHLE AAGLIEQWNGLLMSQLQHQLG DNTLQGWGKVLQKVYYALNQ RSIYGTVSPIARIHGSRNQGV EVALLTVTPNDPL/GKY*LPVPV TLHSDR
13082	43450	A	13162	138	387	
13083	43451	C	13163	184	297	
13084	43452	A	13164	1	430	
13085	43453	A	13165	1	867	
13086	43454	A	13166	35	601	CLSRRASPVYLASMSGRGKTG G\KARA\KAMSRSSRAGRPSQ VGR\VHRLLRKGHYAERVVGR QPCCYLGG*CMEYLT*ESWS MAG\NAARNM\KKTRIIP\RHLQ\ LA\IRNDEELNKLAWAALTIAQ GSR/VLPNIQARCCGPR*TSATV G\PKAPSGGEERATQASARSTK RARAAAGRPSVPMPPQRP
13087	43455	C	13167	11	313	
13088	43456	B	13168	1	552	
13089	43457	A	13169	1	621	
13090	43458	A	13170	55	296	
13091	43459	A	13171	959	1182	WVYLF*PSCKGVIYP*AAGFESI FWWVTINKNIDWINIYYNQ QFMNYTRDAVKGIAEQLGTNC QMAWENRIALDMILAERGGVC IMIKTECCAFIPNNTAPNGSITK ALQGLTALSNELASSGVNDPF TGWLEKWFGKWKGITASILTS TAVMGVLILVGCCVIPICGLV QRHRGPPLVVIETKPLGLERLA GLPVGHALKLGSGIQATPQNGE NADRREAFPAAS
13092	43460	A	13172	1	540	
13093	43461	A	13173	2	142	
13094	43462	A	13174	42	384	
13095	43463	A	13175	102	329	
13096	43464	A	13176	1	1257	
13097	43465	A	13177	1	378	
13098	43466	A	13178	1	1143	
13099	43467	A	13179	1	481	SDSELNRPRVTMKFNPVTSR SKNRKRHFNAPSHVRRKIMSSP LSKELRQKYNVRSMPIRKTDEV QVVRGHHYKGQQIGQGSPTCT KKYVIYIER\VQREK\ANGTNC TWGISPKARWLFTRLKLDKDR KKILERKAKSRQVGKEKGKYK EELIEKMQE

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13100	43468	A	13180	39	556	AAAGYFAEDCEASCVCVKHPP SVKKARCFLSELIKPSGGSVTL SESTAIISHGTTGLVTWDATLYL AEWAIENPAAFTNRTVLELGSG AGLTG/VAICKMYRPRAFIFSDC HSRVLEQLRGNVLLNGLSLEAD ITANLDSRVTVQAQLDWDVAT VHQLSAFQPDVVIAADVLY
13101	43469	A	13181	46	231	
13102	43470	A	13182	1	1503	
13103	43471	A	13183	3	340	FFFANTFYCVFNVLVNAPLRFL SLPSTQSLEAKLRDSSDSELRRD ILQKVRIPESLGLMTLPPELRK T*EKNRRCACTL*K\TPVQRTKP LSQHCRWVWAPPTAPALSFSKT
13104	43472	A	13184	2	594	
13105	43473	A	13185	1	1470	
13106	43474	B	13186	79	1355	
13107	43475	A	13187	248	540	
13108	43476	A	13188	386	1388	
13109	43477	A	13189	386	1334	
13110	43478	A	13190	3873	4070	
13111	43479	A	13191	146	510	PPCAVVCLLWIAAVYCLSTTFC APLCGQNTWLPKPCRHNRAA SNASVSLSTVTLFSRLS*PQRKG SELLDSSGPLPASPLPLCSGVS PRAGLGSAWPKIPFLGIREAKN PRSENTRLTT
13112	43480	A	13192	21	95	KCSSNGAPDAVHE*DLPWTPGP AC
13113	43481	B	13193	1	477	
13114	43482	A	13194	228	935	PLSSSMAAELEFAQIIIVVVVTV MVVVIVCLLNHYKVSTRSFNR PNQSRREDGLPQIMHAPRSRD RFTAPSFQDRFSRFQPTYPYV QHEIDLPTISLSDG\EEPLYQV PCTLQLRDPEQQMELNRESVRA PPNRTIFDS\DLIDIAMYSGGPCP PSSNSGISASTCSSNGRMEGPPP TYSEVMGHHPGASFLHHQRSN AHRGSRLQFQQNNAESTIVPIK GKDRKPGNLV

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13115	43483	A	13195	526	1629	FYSFDSARGEPARPWRVRGLEG RVELGQQLGLLTLGPAFPGGLG GTQRVGLPGPAGPGAGEEQQA GPAEAGQVPVGGGLADEAVEHG VGDAVEAGEQEGEVVGVENAL GEVAAGLPDAAHQQHVVGQ EAGQEDDHGAEHQPLDLVLAA LLGAVAPAHGAQDALVGRQQ QADGEEEA/LPGSGSS*WHAAM PGWWSAQSTRGAGSRPR*PPRA SGSRCWSAAPWPR*PR*RRRPP SGSGTGGSGRDGPQPGSGPR/T MQQRKPTLM*MFSYRR\IRTPG RTGRRETSCRAAARTAAARRAA SRCRRGRPPSGCTGTRPARSGP* SAGSVEVEGQAVGREAHHQHG NIDHRGQRLVDGMVDGTAHRG VVCSDVPH
13116	43484	B	13196	2699	7361	
13117	43485	A	13197	67	1523	
13118	43486	A	13198	1	287	
13119	43487	A	13199	2	563	
13120	43488	A	13200	96	401	
13121	43489	B	13201	1	480	
13122	43490	A	13202	1	924	
13123	43491	B	13203	13	1512	
13124	43492	A	13204	1	402	
13125	43493	A	13205	609	803	RDPRHNPSSAFQAGGIALMLI TRGEDLTGGVIHQYPGPGMNL WMQGTAGNQRRAAENAAQQQ
13126	43494	A	13206	3	526	VTETALTLPYLVAKHGYFLPD LAKRTETMNWLFWLQGAAPFL GGGFGHFYHYAPVKIEYAINRF TMEAKRLLDVLDKQLAQHKFV AGDEYTIADMAIWPWFGNVVL GGVYDAAEFLDAGSYKHVQR WAKEVGERPAVKRGRIVNPTN GPLNEQLHERHDPDFQTNTN\ NNRQG
13127	43495	A	13207	1	250	
13128	43496	A	13208	1	489	
13129	43497	A	13209	209	601	
13130	43498	A	13210	1	96	
13131	43499	A	13211	1	1110	
13132	43500	A	13212	1	595	
13133	43501	A	13213	1	240	
13134	43502	A	13214	1	675	
13135	43503	A	13215	1766	1957	
13136	43504	A	13216	1	426	
13137	43505	B	13217	94	3238	
13138	43506	A	13218	1	2370	

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13139	43507	A	13219	1	2796	
13140	43508	B	13220	43	566	
13141	43509	A	13221	1	903	
13142	43510	A	13222	3	110	
13143	43511	A	13223	2	755	
13144	43512	A	13224	1	1338	
13145	43513	A	13225	1	807	
13146	43514	A	13226	1	918	MARADTVSVPMFMGLAAKPC WRDTEPNTGYRGPHVRNIQLT HDPRLDYRSI/LIDINDIGQTFHE RLHPDAC\LSNAILVHNKKGGP LADGIVITPSHNPPEDGGIKYNP PNGGPA\VPTSLKWWKTGPTH WPMA*KA*SVSPRRSDGIRSKN DVIDTSDDDM**QCLSRRSN\G HPGAKVANLVPKTTFIDGVDQT SFFLGTNGQSNRKA EHYFLNGK LAAVRMDEFKYHVLIQQPYAY TQSGYQGGFTGTVMQTAGSSV FNLYTDPQESDSIGVRHIPMGV PLQTEMHAYMEILKKYPPRAQI
13147	43515	A	13227	1475	2904	FWRAAAPIDCWRS GAVKKQH VEVTQLDWTTPGRQYAGPIPCS RRGYCPLPRSGSVRWADL/FPP A/LD/LAGHPG/AKVANLVPKTT FIDGVDQTSFFLGTNGQSNRKA EHYFLNGKLAAVRMDEFKYHV LIQQPYAYTQSGYQGGFTGTV MQTAGSSVFNL YTD PQESDSIG VRHIPMGVPLQTEMHAPGLPLA SSMKRWIRATGFIFGKEQFED VVPVLGSKVNGVQFNAELVAD SLGISQIRCRAIFLTVVFFPVLH KQAFDLISLLLQQPGRNGGIDT AGHADDYFFCGFRHWITHDIEL QGGARQKDAADHYLAGDIESL PLATATFDLAWSNLAVQWCGN LSTALRELYRVVRPKGVVAFTT LVQGSLPELHQA WQAVDERPH ANRFLPPDEIEQSLNGVHYQHH IQPITLWFDDALSAMRSLKGIG ATHLHEGRDPRILTRS QLRLQ LAWPQQQGRYPLTYHLFLGVI
13148	43516	A	13228	215	525	LAWARRCRLLAKATSLIRAPS SEMASTPCRGRPSGYSWY GRSPRAVLEGLRVGAHLSTRAN CPWPSR/SQVVELIPDGFPVFLD FTKIPGRDTQNEHIVLLH
13149	43517	A	13229	1	942	
13150	43518	B	13230	1	1201	
13151	43519	A	13231	685	921	

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13152	43520	A	13232	2	251	
13153	43521	A	13233	2	100	
13154	43522	A	13234	5	1093	
13155	43523	A	13235	2	482	
13156	43524	A	13236	1	2496	
13157	43525	A	13237	572	912	RCRPDKAFTPHPAIGARCLMRR LRVLSCLQPLPNVGWIRRLRRJR QFSAPDEGAKCRVAILQ/DFDA QYGRFLEVTSQAQQRFQTD*K HAAALPFFFPSSAYSALAAISVVF GFR
13158	43526	C	13238	5	127	
13159	43527	A	13239	1	444	
13160	43528	A	13240	17	261	
13161	43529	A	13241	173	397	
13162	43530	A	13242	169	421	LKPKNLDEKLLPASSSSCRIWA TSPVHHLWQVLKKILFGWNPT KSPRCLS/TRQAMFSLSKKASLP WTIAARSADQRCRTRIAEL
13163	43531	A	13243	17	744	RPHQEQRIAGCGVNALSSLRSA TAVGMIRRASVASG/DRAPIAG CGVNALSGLHRHFIEVTCTHFL LVRYEGIAIFRGGKFRLHFLN VVLHTLALGIGVCQVKHVEPH AVDTCQGDELELVAHIRQLLLE AGNSFVVEVYLPVERRRAVISQ QFARIFRVDLSCKATRQFQIRRG RSHQTGQHMGIIRRVDAAHAD DRRTSGRVPPLIQVCPAHSSEA VVVVVDVDVDVDVDVDVIGAV
13164	43532	A	13244	954	1104	
13165	43533	B	13245	54	1169	
13166	43534	A	13246	35	3066	VGHSTRPAASPGPAAGIGRSPA RLVQQPQRS LAKPLNRPAAQR GLLPQRRHPKRTKRKRKAQN PQKRLPHRQPVRRRHRHRRLL QKMRRPDKRQRRAPRRHPR RRQRLAVRRRQLRAKVRNP RQRAPRQQLNGQRIHPPWRLR MQVRRKRG*YSSAVRPTVRLK RWRQRQRQ*NQPMQMQRNVC RKTRTALIYP/YKGCFLNNINAV SKTDFADKRGMRVYRVNAPAG ATSGKYYPVVVMRSAGSFHI
13167	43535	A	13247	1	2919	

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13168	43536	A	13248	1	3211	MEFTSLTPDDLRLVLELYRTPFS DGYVFHSMQFHIFDLLKSGQN VVL SAPTSMGKSAIVDSL LGMG TLKRLVLVVPPTVALADETRRRL QERFGDRYQIIHHSSQVCHSDQ AVYVLTQERVNERDDIVIDLF VIDEFYKLAFRQLKSGDIDHQD ERVIELNIALSKLLKVSQRQFYLT GPFVNSIRGLEKLGYPHTFVST DFNTVALDVKTSASKRMTTKP SSKRWGKSRTCVDADHIKNGIG LHFGALPRALQQYT
13169	43537	A	13249	486	3882	LRLRGEALPVASGCLANATDTP AGTTLWADTERHAVQ**TCEA DTLGSCGYAAKPCLSPVAVWQ MLLTRLLEQHYGLTLNDTPFSD EPVLTAPIDAAALRGIEFGKFQL GNMVVGDIIECGSDVTDYAVG DSVCGYGPLSETVIINAVNNYK LRKMPQGSSWKNVAVCYDPAQF AMSGVRDANGARRGFWWGGL GAIRVQLAFKWLNAAGRLPGG GLGGPIPYSAHRCDIARRHGAD FCLNPIGTDVGKEIKTLTG
13170	43538	B	13250	1	1116	
13171	43539	A	13251	729	985	SAPPQLAPSLPDRA TDPDTCWP PG*RP\RYLPSRQIDCFNTRFRL QRLTASQCAEAVDVAFRLTV QQTPHFRCAQLRQRAFRID
13172	43540	A	13252	395	605	
13173	43541	A	13253	1	1140	MIYVFVTVKHRNDHFTKNTLA SYRGRTLLGTLFKGVYHLYKD ETYLYQSGKGHTIQEVRIKGL NNPDLDAAVGEDLAQQLRDEL ELVKGASNEFDKELFLAGEITP VFFGTALGNFGVDHMLDGLVE WAPAPMPRQTDTRTVEASEDK FTGFVFKIQANMDPKHRDRVA FMRVVSGKYEKG MKLRQVRT AKDVVISDALTFMAGDRSH/AY PGDILGLHNHGTIQIGDTFTQG EMMKFTGIPNFAPELFRIRLK DPLKQKQLL KGLVQLSEEGAV QVFRPISNNDLIVGAVGVLQFD VVVARLKSEYNVEAVYESVNV ATARWVECAKAKFEFKRKN ESQLALDGGDNLAYIATSMVN LRLAQERYPDVQFHQTREH
13174	43542	A	13254	1	1495	

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13175	43543	A	13255	372	1365	IRYFENRGLFAHCATRTGQFP HCILASYKCGEQPDSSSNHPRN LFVWRSNLLGSSG\KGHEYM KYL LGTESGIQGEELGASDGIK EEVEWQTAAIEGKLDLLVTLDF RMSSTCLFSDIVLPTATWYEKD DMNTSDMHPFIHPLSAAVDPA WESRSDWEIYKGIKAFAFSQVCV GHLGKETDVVLQPLLHDSPAEL SQPCEVLDWRKGECDLIPGKTA PNIVAVERDYPATYERFTSLGP LMDKLGNGMDLTDYANMALSI PSANTDIWNLEQDTVGTRLTNS RHGLADNGGAWVS YFGGNFN GDNGTINYDQDVNGIMVGVD TKIDGNDG
13176	43544	A	13256	3	1444	
13177	43545	A	13257	61	1058	LPYLIALLARAWFNGLLTSRTR LYIKGN GIVDLPKLQEMVADVS HHFPLRLPAPTPKALYSPCEIRH LAINVNLEYDPTAAFRNQVVHF DFRKLDVFSFGENQNCLVGNV DLL\YRNSWNEVRTLHFNGEQS MIEALKTILGKMHQDAAPPDSV EVFCYSQHLRGLIRTRVQQLVS ECIELRLSSTRQETGRFKALRVS GQTWGLFFERLNVSVQKLENAI EFYGAISHNKLHGLSVQVETNH VKLPAVVDGFASEGIIQFFFEET QDENGFN IYILDESNRVEVYHH CEGSKEELVRDVSRFYSSSHDR FTYGSSFINFNLQDPYLRARVSI
13178	43546	A	13258	1	1133	
13179	43547	A	13259	2	240	ISSARHFGALACTLELGKALT GQNDLRQFAVTASAIAALL/SR HSPSFEMHMASDTLNFMPFEK GTLLAQDGEERFTVTH
13180	43548	A	13260	1	358	LPFLPSGLRGLAAENKIRRP GSAFLGPPCGLRGKLV/ISAAALM STTIPISRVQGLLQFLNSKSPISR AERSWSTFGASAAFLTTLASLL FLFPPLAISSLAN SFAKVFPPTPC AGSP
13181	43549	A	13261	1	1635	
13182	43550	A	13262	1	1363	
13183	43551	A	13263	5	249	
13184	43552	A	13264	15	280	
13185	43553	A	13265	6	363	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
13186	43554	A	13266	78	346	TRYAMLTRHDNHLKSFYLARG RYRADFHAPETNTGERCYRYK PLPYWLE*RRGRNRYPALQ*TM FLPADGPARCLSRQAAILKESV LPK
13187	43555	A	13267	568	831	ELQRHVLVVFAGFWIVKNSRN LFLVCRAEHKRSVVKGLLRQQ GQGFWFHFQDGFAVEVGNNAN VIGSE*IVFGIVFPHRERCLVDK
13188	43556	A	13268	3	419	
13189	43557	A	13269	1	561	
13190	43558	A	13270	1	741	
13191	43559	A	13271	2	1040	
13192	43560	B	13272	1	1974	
13193	43561	A	13273	2111	2340	EVFIRDKLMERRNRRTGRTEKA /RDRTVRTWIGEAVAAAAADG VTFSVPVTPHTFRHSYAMHML YAGIPVKVLQSQCI
13194	43562	A	13274	470	813	KTTSFPAKLFNACRISLLASAEV NPNISAYLATWISQIPSCSCRVP SDFLIWSTNRYRIRF*SRERLVG EAVA/AAAADGVTFSVPVTPHT FRHSYAMHMLYAGIPLKVLQS LMGH
13195	43563	C	13275	440	1180	
13196	43564	A	13276	1	1290	
13197	43565	A	13277	1	1036	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMENTSRRFEQRGFEPDV RILLTKYSNSNGSQSPWMEEQI RDAWGSMLVKNVVRETDEVG KDPRPLPYLGHDEPYTFDINLS VNLKSMVVG GTDMGQEPLKQ MGAWGPLSLKAMFGFFIRGYG FFTPFGRTLFLPLGFGSTPPFTFPL LTKTIGVFILDKLMERRNRRTG RTEKARIWEVTDRTVRTWIGEA GAAAAADGVTFSVSVTPHTFR HSYAMHMLYAGIPLKDLQSLM GHKSISSTEGYTKDFSLDVGAR HRVQFAMPESDAVAMLKQLF
13198	43566	A	13278	366	672	RNGTHPRYIEAVPWGALPAD/G VTFSVPV/TPHTFRHSYAMHML YAGIPLKVLQSRALRELQQAV HAGLPQQA KILFDGGSEIGKIPH IVLYKPVQCSLWAFVH
13199	43567	A	13279	2602	2976	
13200	43568	A	13280	982	1347	
13201	43569	A	13281	1	780	
13202	43570	A	13282	568	891	

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13203	43571	A	13283	1	718	MKEKPSSPRQYSYSLSSMILLG GGESWNLLRADQRLIFAKSWP RASRYQQGHQDLFILRSDLPSQ VFIRDKLMERRNRRTGRTEKAR IWEVTDRTVRTWIGEAVAAAA ADGVTFSPVTPHTFRHSYAM HMLYAGIPLKVLQSLMGHKSIS STEVYTKVVFALDVAAPHPESTP VHLPSRENKIPPPIMRIPCGLPTS PIEQKQGKISATGTQWRRLKQE TRLSSVSARLMSYVGVMC
13204	43572	A	13284	1	496	AMFGFFIRGYGFFTFPGRTLFP LFGSTPPFTFPLLTKTIGVFILDK LMERRNRRTGRTEKARIWEVT DRTVRTWIGEAGAAAAADGVT FSVSVTPHTFRHSYAMHMLYA GIPLKDLQSLMGHKSISSTEGYT KDFSLDVGARHRVQFAMPES DAVAMLKQLF
13205	43573	A	13285	2	545	
13206	43574	B	13286	1	735	
13207	43575	A	13287	1	1599	
13208	43576	A	13288	583	1005	
13209	43577	B	13289	31	1239	
13210	43578	A	13290	1	1023	
13211	43579	A	13291	1	933	
13212	43580	A	13292	1	1278	
13213	43581	A	13293	1	705	
13214	43582	A	13294	2	893	
13215	43583	A	13295	88	429	
13216	43584	B	13296	1	1419	
13217	43585	A	13297	1	2784	
13218	43586	A	13298	163	416	RNGTHPRYIEAVPWGALPAD/G VTFSVPV/TPHTFRHSYAMHML YAGIPLKVLQSLALRELQQA VHAGLPQQA KILFDGGSEIGKI
13219	43587	A	13299	740	1431	CCQTLPVFHPPHPSHLGPRPCPP TH/HLPSEHRSFLAACHDS SDSLEPLNLSSGSKTKSPSLPPKAKK PKGLEISA/RPAGALRHRHRLHR PQQPSPPLGIPHPSSL\TAQVFIR DKLMERRNRRTGRTEKARIWE VTDRTVRTWIGEAVAAAAADG VTFSVPVTPHTFRHSYAMHML YAGIPLKVLQSLMGHKSISSTE VYTKVVFALDVAARHRVQFAMP ESDAVAMLKQLS
13220	43588	B	13300	1	858	
13221	43589	B	13301	1	1098	

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13222	43590	A	13302	1	1047	MNRQLSDSYTEDTKEPSDVTTSE ERTRSPPGSAKTTMIDTLKKLQ DVLKTEDSKNPTKSAADLLEQ YVKATGPPIIILQKATKTMEMI MIVEEKASDELQDPPELQQRVI HVRGKPGLVKQRTQEIETRLR LAGLTVSSPLKRSHSLAKLGSL TFSTEDLSSRPPGPPPGPGLHP GPPPRPPPKLPPAPPGCSVHC CHYPLHFVVSPLGFGYCSLMRI QIVFVTAHVHDSALLPLDASL APEALQNFQRYTGIQHVHRIGM AERMWCDNRNRHTVSSSGGN RLPNPAPLPNPGVLSAPPNLIQR PKADDTSAATIEKKATATISAK PQITNPKAEIT*NPRVWQGSWI GEAVAAAAADGVTFSPVTPH TFRHSYAMHMLYAGIPLKVLQ SLRSQ*SVRGKPGLVKQRTQEI ETRLRLAGLTVSSPLKRSHSLA KLGSLTFSTEDLSSRPPGPPGP PPGLHPGPPPRPPPKLPPAPP GCSVHCCHYPLHFVVSPLGFGY CSLMRIQIVFVTAHVHDSALL PLDASL APEALQNFQRYTGIQHV HRIGMAERMWCDNRNRHT VSSSGGNRLPNPAPLPNPGVLS APPNLIQRPKADDTSAATIEKK ATATISAKPQITNPKAEITRFCPL
13223	43591	B	13303	1	1185	
13224	43592	A	13304	529	774	
13225	43593	B	13305	1	1089	
13226	43594	A	13306	712	1024	GVESNLVVVVALCHRLIYLVW GTRTVRTWIGEAVAAAAADGV TFSVAVTPHTFRHSYAMHMLY AGIPLKVLQSRVVALDVAARH RVQFAMPESDAVAMLKQLS
13227	43595	A	13307	556	1040	
13228	43596	A	13308	1	984	
13229	43597	A	13309	95	428	
13230	43598	C	13310	1	426	

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13231	43599	A	13311	116	1746	SSVTGRTEKARIWEVTDRTV/R RPWIGEAVAAAAADGVTFSPV VTPHTFRHSYAMHMLYAGIPL KVLQSLMGHKSISSTEVTYTKVF ALDVAARHRNRFTQFRLSETKE ITNPYAMRLYESLCQYRKPDGS CIVSLKIDWIIERYQLPQSYQLY YFELAIPVGIFYPGSFSTASRIL LLHPRGLRAITIAVFGKQNTYIR LEPFKINVLEQITKHIEKLQCGG VVKQLSRRGNNQHISSTYDINR ADTQVRRAVNNYDIIVMSNSFN GQSEHQVWIARLTWVIGTINVV CAADVLIPTPAELFDYTSALQ FFDMLRDLKKNVDLKGFEVDV RILLTKYSNSNGSQSPWMEEQI RDAWGSMVLKNVVRETDEVG KARLTWGIGTINVVCAADVLI PTPAELFDYTSALQFFDMLRDL LKNVDLKGFEVDVRILLTKYSN SNGSQSPWMEEQIRDAWGSMV LKNVVRETDEVGKEPPSTNTFR HSYAMHMLYAGIPLKVLQSLM GHKSISSTEVTYTKVFALDVAAR HRVQFAMPESDAVAMLKQLS
13232	43600	A	13312	1	1593	
13233	43601	A	13313	1	2536	
13234	43602	A	13314	887	1205	RPEKAR/IWGVTDRTVRTWIGR AVAAAAADGVTFSPVPPHTF RHSYAMHMLYAGIPLKVLQSL MGHKSISSTEVTYTKVFALDVAAR RHRVQFAMPESDAVAMLKQLS
13235	43603	A	13315	79	351	
13236	43604	A	13316	1	2320	
13237	43605	A	13317	187	798	
13238	43606	A	13318	2089	2610	
13239	43607	A	13319	1	1407	
13240	43608	B	13320	154	3682	
13241	43609	A	13321	1	1206	
13242	43610	A	13322	1	255	

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13243	43611	A	13323	3058	3160	GSAA*LPPPLPAAFGSCWLSQ RHP ELHV*NEIYHLLH*KSFTSC *HNLSS*PRYPYLSSERV LW*CL SFISKI*SVTMP*SDLISLW*KLE PLTCRSTSHFRQKLAQ/RLP/AY QQGHQDLFILRSDLPSQVFIRDK LMERRNRRTGRTEKARIWEVT DRTVRTWIGEAVAAAAADGVT FSVPVTPHTFRHSYAMHMLYA GIPLKVLQSLMGHKSISSTEVYT KVFDALDVAARHRVQFAMPESD AVAMLKHYPEINALALYLKCG TEWIC
13244	43612	A	13324	1	1812	
13245	43613	B	13325	1	1776	
13246	43614	A	13326	583	751	
13247	43615	B	13327	826	2097	
13248	43616	A	13328	1810	4163	
13249	43617	A	13329	686	2939	
13250	43618	A	13330	1085	1690	SYFIMVKVGTSYVPINVSFSPKV GPGASRYQQGHQDLFILRSDLP SQVFIRDKLMERRNRRTGR\IYK ARIWEV\TDRTVR\TWICRGG PAAAADGVTF\SDPGPP\HTFRH SYAMHMLYAR*YR*KFLQSLM GHKSHPINGKATPKVFGPGMG LARA/HRGAGWQWPKSDAVG\ MPKQLSLRINALGLYMETGKPE GIMLFFGC
13251	43619	A	13331	3	327	
13252	43620	A	13332	3	337	
13253	43621	C	13333	167	413	
13254	43622	A	13334	1	1256	
13255	43623	A	13335	1	1078	
13256	43624	A	13336	3	976	
13257	43625	A	13337	1	1004	
13258	43626	A	13338	2	291	WRKIYEANGKKRKQRLQS*SL MKQTLNQQRSKETKKASA/SM RIKYLGIQLTRDVKDLFKENYK PLLNEIKEDTNKWKNI PCSWVG RINIVKMAIPPK
13259	43627	A	13339	1	2022	
13260	43628	A	13340	1	2262	
13261	43629	A	13341	5	283	
13262	43630	A	13342	1	1245	
13263	43631	A	13343	1	1203	
13264	43632	A	13344	1	687	
13265	43633	B	13345	1	1371	
13266	43634	A	13346	1	2241	

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13267	43635	A	13347	1	832	LKKCIKTPEIPSKHVRNWPVKV LEQRRQGLEYTLQVASITLIPKA DEDTPKKKTTDKNSWTGTDAK VFNKILEIKFSSILKRLYWPVLE VLARAMRQEKEIKGIQLGKEEV KLSRFADDMIVYLENPVSAQN LLKLISNFSKVSGYKINVQKSQ AFLYTNNRQ\TESQIRIKYLGIQ LTRDVKDLFKENYKPLLKEIKE DTNKWKNIPCSWVGRINIVKM AILPKRYPFQCLCHQSAISTTKG VFTSILPLLMIEQLVSGRSCPSV AWSSMECTTV
13268	43636	A	13348	1	1314	
13269	43637	A	13349	1	843	
13270	43638	B	13350	1	1011	
13271	43639	A	13351	1	173	
13272	43640	A	13352	1	323	
13273	43641	A	13353	3	2020	
13274	43642	A	13354	1	1473	
13275	43643	B	13355	1	636	
13276	43644	B	13356	1	456	
13277	43645	A	13357	1	619	
13278	43646	A	13358	1	1293	
13279	43647	B	13359	79	1041	
13280	43648	A	13360	3	718	
13281	43649	A	13361	1	612	
13282	43650	A	13362	1	992	
13283	43651	A	13363	1	1236	
13284	43652	A	13364	1	1071	
13285	43653	A	13365	359	1250	KLPMGVAVVKLLHLPKVIIVFW LASWMMSRWLHYPDWVTIAQ QVLMNVVSVMQADCRMNLLEI FLRWLMRKIFHVRLLPAVSTPP NCLNQLLFFLTPVNYLPGQVM HFKKPLQIKRNYLSSRHLEFMS RKKLKGK VSGYKIHVQKS\QAF SANSQTESQIMSELPFTMASK RIKYLGIQLTRDVKDLFKEYK SLLNEIKEDTNKWNNPCSWV GRINIMKMAILPKVIYRFNAIPI KLPMFTFFTELEKTTFFKIWNQK RAHIAKSNLSQKNKAGGITLPD FKLYYKATVTKTT
13286	43654	A	13366	1196	2132	
13287	43655	A	13367	1	2271	
13288	43656	A	13368	2	1105	
13289	43657	A	13369	1	2117	
13290	43658	A	13370	1	1447	
13291	43659	A	13371	1	1669	
13292	43660	A	13372	1	2823	

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13293	43661	A	13373	1089	2539	
13294	43662	A	13374	1	1787	
13295	43663	A	13375	1205	1207	
13296	43664	B	13376	1	2745	
13297	43665	A	13377	1	2063	
13298	43666	A	13378	1	4380	
13299	43667	A	13379	1	3347	MGDFNIPLSTLDRSTRQKVNKD TQELNSALHQADLIDSYRTLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITNYLSHSA IKLELRRIKNTQNCSTTWKLNN LLNDYWVHNEMKAEIKMFFE TNENKDTTYHNLWDAFKA VCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTHSKASRRQEI TKIRAELEKETQKTLQKINESR SWVFERINKIDRPLARLTKKKS EKNQIDA IKNDK
13300	43668	A	13380	1	2367	
13301	43669	A	13381	1	1116	
13302	43670	A	13382	1	1095	
13303	43671	A	13383	670	1500	QTESSTSKSLSTMIKWASSLG WQGWFNIRKSINVIQHIKGIQR QKPHDYLNRCRKS L*QNSTTLH AKNSQ*TAQNLLKLISFNKVS GYKINVQKSQAFLYTSNRQTES QIMSELPFTIASKRIKYLGIQLTR DVKDLFKENYKPLLKEIKEDTN KWKNIPCSWVGRINIVKMAILP KVIYRFNAIPKLPMTFFTELEK TTLKFIWNQKRAHIAKSILSQK NKAGGITLPDFKLYYKATVTKT AWYWYQNM CYRSMEQNRALS YYVAYLQPSDL
13304	43672	A	13384	441	3131	
13305	43673	B	13385	1	5688	
13306	43674	B	13386	916	2165	
13307	43675	A	13387	1	1529	MDPPAGAARRLLCPALL*LPAG *PLRPRLAGAAPAPGTALLHER AMPL*LRPGLHDVHGVPDL
13308	43676	A	13388	1	714	
13309	43677	A	13389	3	457	
13310	43678	A	13390	2	492	
13311	43679	A	13391	3	1201	
13312	43680	A	13392	1	309	
13313	43681	A	13393	2	1073	

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13314	43682	A	13394	3119	6984	CIVKHAAMRSAMTSLAARITVL NPTRATTPTNT/RVADDQGFLRQ WSKVAKERKLQRLYIGEPSAEA VAAQMPDLILISATGGDSALAL YDQLSTIAPTLIINYDDKSWHPR LSFNKADEITTVFCGSKKSLAN GIPMANILFPTSVIATQQTQHFR FVDDFNAQFLRFASLDPAASPA ITISGKATLEIPGTELVFYAALE KKLNIKPGQTTFDGRFTLLPTC CLGNCDKGPNMMIDEDTHAHL TPEAIPELLER
13315	43683	A	13395	3	587	
13316	43684	A	13396	1	315	
13317	43685	A	13397	430	636	
13318	43686	A	13398	1	84	
13319	43687	A	13399	1	1647	
13320	43688	A	13400	1	2652	
13321	43689	B	13401	1	1494	
13322	43690	A	13402	1	750	
13323	43691	A	13403	1	513	
13324	43692	A	13404	1	2254	
13325	43693	A	13405	1	746	
13326	43694	A	13406	3	428	LGDDFVRAANIILHCEGKVVVS GIGKSGHIGKKIAATLASTGTPA FFVHPAEALHGDLMIESRDV MLFISYSGGAKELDLIIPRLEDK SIAL\GKPTSPLGLAAKAVLDIS VEREACPMHLAPTSSTVNTLM MGDALAMAV
13327	43695	A	13407	1	1431	
13328	43696	A	13408	943	2481	
13329	43697	B	13409	1	783	
13330	43698	A	13410	3	729	
13331	43699	A	13411	1	843	
13332	43700	A	13412	3	128	
13333	43701	A	13413	1	136	
13334	43702	A	13414	1	492	
13335	43703	A	13415	3	619	

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13336	43704	A	13416	1	1600	GQACHASSSPLKGSRGSPNFEI LYGPIFEDSLAPD*PKVIAGQNT LRDAVTGPISSPNEAGKIYQLKP NPAVLICRVRGLHLPEKHVTW RGEAIPGSLDFALYFFHNYQA LLAKGSGPYFYLPKTQSWQEA AWWSEVFSYAEDRFNLPRGTIK ATLLIETLPAVFQMDEILHALR DHIVGLNCGRWDIYFSYIKTLK NYPDRVLPDRQAVTMDKPFLN AYSRLLIKTCCHKRGAFAMGGM AAFIPSKDEEHNQVLNKKVA DKSLEANNGHDGTWIAHPGLA DTAMAVFNDILGSRKNQLEVM REQHAPITADQLLAPCDGERTE RKFNALMESEKQSQNLWKFA VYSGLRHGELAALAWEDVDLE KGIVNVRRLTILDMFGPPKTN AGIRTVTLQPALEALKEQYKL TGHHRKSEITFYHREYGRTEKQ KLHFVFMPRVCNGKQKPYYSV SSLGARWNAAVKRAGIRRRNP YHTRHTFACWLLTAGANPAFIA SQMGHETAQMVEIYGMWID DMSDEQIAMLNARVM
13337	43705	A	13417	2	278	
13338	43706	A	13418	3	662	GHLWIRIDLSQSAVSHSVKELE NHTGVRLLDRTTREVVLTDA GQQLALRLERLLDELNSTLRDTG RMGQQLSGKVRVAASQTISAH LIPQCIAESHRRYPDIQFVLHDR PQQWVMESIRQGDVDFGIVIDP GPVGDQLQCEAILSEPFLLCHRD SALAVEDYVPALPLPEGSPLVV KRITPVVERQLMLVRRKNRSL TAAEALWDVVRDQGNALMAA
13339	43707	A	13419	1	646	GQQLSGKIVRVAASQTISAH LIPQCIAESHRRYPDIQFVLHDR PQWVMESIRQGDVDFGIVIDPGP VGDLQCEAILSEPFLLCHRD SALAGG DYVPWQALQGA KLVLQDYASGSRPLIDAALARN GIQANIVQEIGHPATLFP MVAAGIGISILPALALPL PEGSPLVVKRITPVVER QLMLVRRKNRSLSTAAEAL WDVVRDQGNALMA\GRE
13340	43708	A	13420	1	1068	
13341	43709	A	13421	1	381	
13342	43710	A	13422	3	938	

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13343	43711	A	13423	595	1630	CSWHDRFPDWKAGRILPISEPPS NRIFACWGKPAWTACCN/FSQG QAVKGNQLLPVSLVKRKTTLA PNTQTASPRALADSLMQLARQ VSRLESGQDFADFGTTIKQDFR LLGQTSVDRLLQLSQGQAVKG NQLLPVSLVKRKTTLAPNTQTA SPRALADSLMQLARQVSRLESG QDFADFGTTIKQDFRLLGQTSV DRLLQLSQGQAVKGNQLLPVS LVKRKTTLAPNTQTASPRALAD SLMQLARQVSRLESGQDFADF GTTIKQDFRLLGQTSVDRLLQL SQGQAVKGNQLLPVSLVKRKT TLAPNTQTASPRALADSLMQLA RQVSRLESGHYDHDYEFELGTR FRAVIKLCNGDSLRFMTSVY ALVKCFHEGDPLHKTGCQHLIP KQQQNEKYQVPQFDQSTIKNIE SAKGLDVWDSWPLQNADGTV AEYNGYHVEMLLREAGKAGFC RFRNHHQTGFSPAGANQRGPL AATLSGPGGEGQSAVARLTGE KKNHPGAQYANRLSPRVGRFIN AAGTTGNSYDHDYEFELGTHQ RLGAVARIVGDDLLNELRRDV VDARAGDVDQHAHAEGDFR
13344	43712	A	13424	1	1395	

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13345	43713	A	13425	1307	1992	DKLNPVAHQKAYLAQSSQCHP QNARLVQHTQIRILPISEPPSNRI FACWGKPAWTACCN/FSQGQA VKGNQLLPVSLVKRKTTLAPNT QTASPRALADSLMQLARQVSR LESGQDFADFGTTIKQDFRLLG QTSVDRLLQLSQGQAVKGNQL LPVSLVKRKTTLAPNTQTASPR ALADSLMQLARQVSRLESGQD FADFGTTIKQDFRLLGQTSVDR LLQLSQGQAVKGNQLLPVSLV KRKTTLAPNTQTASPRALADSL MQLARQVSRLESGQDFADFGT TIKQDFRLLGQTSVDRLLQLSQ GQAVKGNQLLPVSLVKRKTTL APNTQTASPRALADSLMQLAR QVSRLESGQLKHKEVESPNRPI TSSEIQVLIKSLPIKKSPPDGFT AEFYERYKEELVPFLLKLFQTIE QERLLPNSFYEASILTSPSRD ATKKDNFRPTSLMNIYAKILNK IGQTESSSTSKSLFSTIKSVSSPE CKAGSTYANQDFADFGTTIKQ DFRLLGQTSVDRLLQLSQGQA VKGNQLLPVSLVKRKTTLAPNT QTASPRALADSLMQLARQVSR LESGQETTPWSPFSDPVLAFDY KVFMAFVYNVVRVSQRMVVA GCISAFNDKLLNDLICFPVAPVS SKQIFPSDVKVAEPDHSCVSSY RIGSMAPNLTSEMPRHNYFPA GNSVDHDNEFEL
13346	43714	A	13426	560	844	
13347	43715	B	13427	200	1519	
13348	43716	A	13428	950	1230	CSWHDRFPDWKAGRILPISEPPS NRIFACWGKPAWTACCN/FSQG QAVKGNQLLPVSLVKRKTTLA PNTQTASPRALADSLMQLARQ VSRLESGQDFADFGTTIKQDFR LLGQTSVDRLLQLSQGQAVKG NQLLPVSLVKRKTTLAPNTQTA SPRALADSLMQLARQVSRLESG QDFADFGTTIKQDFRLLGQTSV DRLLQLSQGQAVKGNQLLPVS LVKRKTTLAPNTQTASPRALAD SLMQLARQVSRLESGQDFADF GTTIKQDFRLLGQTSVDRLLQL SQGQAVKGNQLLPVSLVKRK TLAPNTQTASPRALADSLMQLA RQVSRLESGQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
13349	43717	A	13429	695	1060	FRQRSVAFPPPTVPNACVSVRSR ERDFADFGTTIKQDFRLLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKRKTTTAPNTQTASPRALA DSLMQLARQVSRLESGQ*AQR N*CRKHRLSIPRK
13350	43718	A	13430	1	1558	MRDIFWVPDICKVMLYL VFFRS MGTPLRVAVAMGLVITSWKIAQ KPRDFADFGTTINQDFRLLGQT SVDRLQLSQGQAVKGNQLLP VSLKTDTKAKNLYLT KAYYGG GTNFFRKESQKLQQS AKKRDA ELANGALGIIELNNDYTLKKVM KPLITSNTGFADFGTTIKQDFRL LGQTSVDRLLQLSQGQAVKGN QLLPVSLVKRKTTTAPNTQTAS PRALADSLMQLARQVSRLESG Q*AQRN
13351	43719	A	13431	391	1676	FIRDFADFGTTIKQDFRLLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKRKTTTAPNTQTASPRALA DSLMQLARQVSRLESGQ*AQR N
13352	43720	B	13432	1	1638	
13353	43721	A	13433	1	2430	
13354	43722	B	13434	1	1282	
13355	43723	B	13435	1	1225	
13356	43724	A	13436	350	709	
13357	43725	A	13437	1	2236	
13358	43726	A	13438	548	1698	RSWLRSSLSGSIPIATEISCTSCE ASTSS/VRDFPGVKDLTFQWHD RLIFAIARLLGRSACGVTFHKEQ LGTVKVLRGTISQFARQRAAG QLFTHHFFGRTH TALGAGNRH LRQQFSRLNVLVQPQDKGIFHH ARNECRALTRRETPAFFRIRAVF NSQLSQTQLHIFTAR PAGLAS KCRKPPQACYLWDFADFGTTIK QDFRLLGQTSVDRLLQLSQGQ AVKGNQLLPVSLVKRKTTTAP NTQTASPRALADSLMQLARQV SRLESGQNIESAKGLHVWDSW PLHNADGTVDEYNGYHVVFAL AGSPKDADDTSIYMFYQKVG NSIDSWKNAGR VFKDSDKFDA NDPILKDQTQEWSGSATFTSDG KIRLFYTDYSGEHYG
13359	43727	B	13439	448	1116	
13360	43728	A	13440	97	1636	
13361	43729	A	13441	1	1296	
13362	43730	B	13442	1	2160	

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13363	43731	A	13443	485	865	FIRDFADFGTTIKQDFRLLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKRKTTLAPNTQTASPRALA DSLMLARQVSRLESGQS*NSS KTKNTKCLNSINQRLKILSLQK DLMCGTAGRCKTLTEQ
13364	43732	A	13444	816	1194	SLILFLRRRRRAVEKRGKVWKDS CPNGTTTLTSGAIFLFIRDFADF GTPITQDFRLLGQTSVDRLLHLS QGQAVKGNQLLPVSLVKRKTTL LAPNTQTASPRALADSLMLA RQVSRLESGQ*AQRN
13365	43733	B	13445	1	2710	
13366	43734	A	13446	2027	2934	NPRILPISEPPSNRIFACWGKPA WTACCN/FSQGQAVKGNQLLP VSLVKRKTTLAPNTQTASPRAL ADSLMLARQVSRLESGQDFA DFGTTIKQDFRLLGQTSVDRLL QLSQGQAVKGNQLLPVSLVKR KTTLAPNTQTASPRALADSLMQ LARQVSRLESGQSRVHSHSLGP LPTTTTGSINQKKGGVSGGPG SKEQAEISCLKERKDLGLGILGS TVGILKVKHQGASTKQGHSD LIKILLSDTSLSTPAAPMVDSLIA RVGVMARGNAITLPCGRDVK FTLEVLRGDSVEKTSRVWSGNE RDQELLTEDALDDLIPSFLLTGQ QTPAFGRRVSGVIEIADGSRRR KAAALTESDYRVLVGELDDEQ MAALSRLGNDYRPTSA YERGQ RYASRLQYMNLLPIFLRWLMR KIFHDEHGVPODQQUEEPISETII EEEIPSINSDLGNELYFVKLPKF LSIEPKDFADFGTTIKQDFRLLG QTSVDRLLQLSQGQAVKGNQL LPVSLVKRKTTLAPNTQTASPR ALADSLMLARQVSRLESGQP HSTDSATHRKMTLSLADRCST QKIRILPMAGRDPECQRTEMIK SSDLMAEIIQEHEKEDQLPELEQL EHIGLFSHAEIKAIKKASDLQY RIQERALFKDDFINYVLHEIPLF EQIQRRTIGYSLKHGIRAVKA TIVRALYGRIPAGVVVTRSPV
13367	43735	A	13447	1	5240	
13368	43736	A	13448	4733	4753	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
13369	43737	A	13449	299	761	LNTTAITLCLLLREARKTLMTH QSTCFIKRDFADFGTTIKQDFRL LGQTSVDRLLQLSQGQAVKGN QLLPVSLVKRKTTLAPNTQTAS PRALADSLMQLARQVSRLESG Q*AQRN**PVPKEKRRRGDRQE HQQPCRNTEGTALRVWAARDQ
13370	43738	A	13450	3925	4190	FIRDFADFGTTIKQDFRLLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKRKTTLAPNTQTASPRALA DSLMQLARQVSRLESGQ*AQR N
13371	43739	A	13451	2	1040	
13372	43740	A	13452	58	350	HLASWVVALVLHWGCVWVTA ESSTSKTRSPFRARSWIGEAVA AAAADGVTFSPVTPHTFRHSY AMHMLYAGIPLKVLQSLMGH KSISSSTGVPSSNS
13373	43741	A	13453	1	1290	
13374	43742	A	13454	289	1338	
13375	43743	A	13455	1	732	
13376	43744	A	13456	982	1347	
13377	43745	A	13457	116	1746	SSVTGRTEKARIWEVTDRTV/R RPWIGEAVAAAAADGVTFSPV VTPHTFRHSYAMHMLYAGIPL KVLQSLMGHKSISSTEYTKVF ALDVAARHRNRFTQFRLSETKE ITNPYAMRLYESLCQYRKPDGS CIVSLKIDWIIERYQLPQSYQLY YFELAIPVGYPGFSFSTASRIL LLHPRGLRAITIAVFGKQNTYIR LEPFKINVLEQITKHIEKLQCGG VVKQLSRRGNNQHISSTYDINR ADTQVRRAVNNYDIIVMSNSFN GQSEHQVWIARLTWVIGTINVV CAADVLIVPTPAELFDYTSALQ FFDMLRDLLKNVDLKGFEPAV RILLTKYSNSNGSQSPWMEEQI RDAWGSMVLKNVVRETDEVG KARLTWGIGTINVVCAADVLIV PTPAELFDYTSALQFFDMLRD LKNVDLKGFEPAVRILLTKYSN SNGSQSPWMEEQIRDAWGSMV LKNVVRETDEVGKEPPSTNTFR HSYAMHMLYAGIPLKVLQSLM GHKSISSTEYTKVFALDVAAR HRVQFAMPESDAVAMLKQLS
13378	43746	A	13458	1	780	

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13379	43747	A	13459	116	396	SSVTGRTEKARIWEVTDRTV/R RPWIGEAVAAAAADGVTFSVP VTPHTFRHSYAMHMLYAGIPL KVLQSLMGHKSISSTEYTKVF ALDVAARHR
13380	43748	A	13460	3	514	
13381	43749	A	13461	2	545	
13382	43750	A	13462	1	1110	
13383	43751	A	13463	1	870	
13384	43752	A	13464	1	1422	
13385	43753	A	13465	1	1599	
13386	43754	A	13466	614	1236	TARVAAARRRCQCWGSGACGS ALTLPRTSSLTLTETPIVQQTRM VVRCPASLPSQWRSCPSSTWA VPKTPPTWTCWRNSAILSL/VVF IRDKLMERRNRRTGRTEKARIW EVDRTVVRTWIGEAVAAAAAD GVTFSVPVTPHTFRHSYAMHM LYAGIPLKVLQSLMGHKSISSTE VYTKVFALDVAARHRVQFAMP ESDAVAMLKQLS
13387	43755	A	13467	1	1023	
13388	43756	A	13468	1	699	
13389	43757	B	13469	1	1281	
13390	43758	B	13470	77	751	
13391	43759	A	13471	1	705	
13392	43760	A	13472	2	893	
13393	43761	A	13473	206	837	CAGAGGIARRRAEKEKALSAV NLDPTSRRLSSTSLPGAPPNPRV AAAGLSRRRPTPESAGRKS/GR WPRASRYQQGHQDLFILRSDLP SQVFIRDKLMERRNRRTGRTEK ARIWEVTDRTVVRTWIGEAVAA AAADGVTFSVPVTPHTFRHSYA MHMLYAGIPLKVLQSLMGHKS ISSTEYTKVFALDVAARHRVQ FAMPESDAVAMLKQLS
13394	43762	A	13474	1	1416	
13395	43763	A	13475	1	765	
13396	43764	B	13476	1	519	
13397	43765	A	13477	1	2784	
13398	43766	A	13478	1	624	
13399	43767	A	13479	2089	2454	

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13400	43768	A	13480	740	1431	CCQTLPVFHPPHPSHLGPRPCPP TH/HLPSEHRSLFLEAACHDS LEPLNLSSGSKTKSPSLPPKAKK PKGLEISA/RPAGALRHRHRLHR PQQSPPLGIPHPSLL\TAQVFIR DKLMERRNRRTGRTEKARIWE VTDRTVRTWIGEAVAAAAADG VTFSPVPTPHTFRHSYAMHML YAGIPLKVLQSLMGHKSISSTE VYTKVFALDVAARHRVQFAMP ESDAVAMLKQLS
13401	43769	A	13481	2	2309	
13402	43770	A	13482	1	603	
13403	43771	A	13483	1	762	MVPHSTGKSWNGCDPTSATLD QLVTVFFMKLFSIGDARIPCLGP RSHSYRRSDYYSGTTIHSCCRA DYWSGTTAHL YCRSDYHPVPS FILVTSTTNHQPLKPSISEASWN PLFASL/HHLQLITES/W/YMSLA TTVFIRDKLMERRNRRTGRTEK ARIWEVTDRTVRTWIGEAVAA AADGVTFSPVPTPHTFRHSYA MHMLYAGIPLKVLQSLMGHKS ISSTEYTKVFALDVAARHRVQ FAMPESDAVAMLKQLS
13404	43772	A	13484	1	762	
13405	43773	A	13485	1	615	
13406	43774	A	13486	887	1203	RPEKAR/IWGVTDRTVRTWIGR AVAAAAADGVTFSPVPPHTF RHSYAMHMLYAGIPLKVLQSL MGHKSISSTEYTKVFALDVAA RHRVQFAMPESDAVAMLKQLS
13407	43775	A	13487	1	855	
13408	43776	A	13488	1	927	
13409	43777	A	13489	1	921	
13410	43778	A	13490	1	3216	
13411	43779	A	13491	1	1974	
13412	43780	A	13492	1	1221	
13413	43781	B	13493	1	2337	
13414	43782	A	13494	1	1273	
13415	43783	A	13495	1	1251	
13416	43784	A	13496	1999	3237	
13417	43785	A	13497	1	1773	

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13418	43786	A	13498	1	633	AQALIATYGRDRDPGRPLWLG SVKSNIGHTQAAAGVAGVIKM VMAMRHGQLPRTLHVESPSPE VFIRDKLMERRNRRTGRTEKAR IWEVTDRTVRTWIGEAVAAAA ADGVTFSVPVTPHTFRFSYAMH MLYAGIPL*VLQSLMGHKSIS TEVYTKVFALDVAARHRVQFA MPESDAGGPGTCACSQQGCR LGSSVSPGRQHPQPHVRV
13419	43787	A	13499	101	1943	
13420	43788	A	13500	686	3925	
13421	43789	A	13501	1	2084	
13422	43790	A	13502	734	834	
13423	43791	A	13503	1	1075	
13424	43792	A	13504	1	357	
13425	43793	A	13505	795	1273	SHPFFSTDWSTDTGFRSKIWC HRNCRW/RVAVVKLLHLPKVII VFWLASWMMRWLHYPDWVT IIAQQVLMNVVSVMQADCRMN LLEIFLRWLMRKIFHVRLLPAV STPPNCLNQLLLFLTVPVNYLPG QVMHFKKPLQIKRNYLSSRHLT FMSRKKLG
13426	43794	A	13506	344	449	SHPFFSTDWSTDTGVRSKIWC HRNCRW/RVAVVKLLHLPKVII VFWLASCMMSRCPHYPDWVTI IAQQVLTPRKDVMQADCRMNL LEIFLRWLMRKIFHGFGM
13427	43795	A	13507	1197	1511	WHYREPLLLRAQLTNPPSGQLV SITKYLQPEY*AYVLE*QAH HYQLKSVDQWPVQKQFSSGSD LYQLHPFHVQHFLEPCFPRHPE FAPPSTGTESHYYCCIW
13428	43796	B	13508	1	1494	
13429	43797	A	13509	1	554	MTARKARKITRRWRIGEAADL VGVSSQAIRDAEKAGRLPHPD MEIRGRVEQRVGYTIEQINHMR DVFGTRLRRAEDVFPPVIGVAA HKGNDPQGTASMYHGWPDL HIHAEDTLLPFYLGEKDDVTYA IKPTCWPGLDIIPSCALHRIETE LMGKFDEAQP NLGIGT/N*CRM CC*CADCSHAC
13430	43798	A	13510	1771	2068	DTYSVSWIGEAVAAAAADGVT FSPVTPHTFRHSYAMHMLYA GIPLKVLQSQYPIFKLSYKNPVT QTAWFWFPNRIFGPVPINVSFS PKVGPGLPGII
13431	43799	A	13511	65	277	

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13432	43800	A	13512	327	748	VHQFHGSLHEGFCAGCGCPAP GTVCDAGGFCRFRNHHQTGFSP AGANQRGPLAATLSGPGGEGQ SAVARLTGEKKNHPGAQYANR LSPRVGRFINAAGTTGFPTGKR AKSIWCHRNCRW/RVAVVKLL HLPKVIIVFWLAS
13433	43801	A	13513	512	580	
13434	43802	A	13514	2096	2272	EWRNVCVGTGTENVTPSAAAA QPPPQSRPFSWILRPF*RP*RKIS TSFIRPLFTFLPA
13435	43803	A	13515	402	2784	RKNPFILH*LFR*TLRQTKPDNS AGKCVKI**HTQNQRSGRSQSD F*RRRNISERSAAYR*RQLYIR RQPYAERPSHVEDKGHKYLVF EANTGTENGYQGEESLFNKAY YGGGTNFFRKESQKLQQSACK RDAELANGALGIIELNNDYTLK KVMKPLITSNTVTDEIERANVF KMNGKWYLFDSRSGSKMTIDG INSNDIYMLGYVSNSLTGPYKP LNKTGLVLQMGLDPNDVTFTY SHFAVPQAKGNNVVITSYMTN RGFFEDKKATFAPSFLMNIKGN KTSVVKNSILEQGQLTWLQVA KRAGLGGQSGRTVLRERLPN YKNFKGTIQELGQNQYAVSGEI FVVDRTVEITELPVRTWTQVY KEQVLEPMLNGTDKTPALISDY KEYHTDTTVKFVVKMTEEKLA QAEAAGLHKVFKLQTTLCNS MVLFDHMGCLKKYETVQDILK EFFDLRLSYGLRKEWLVGML GAESTKLNNQARFILEKIQGKIT IENRSKKDLIQMLVQRGYESDP VKAWKEAQEKCDNLKTCHTSH GSVMAETA VINHKRKNSPRIV QSNDLTEAAYSLSRDQKRMLY LFVDQIRKSDGTLQEHDGICEIH VAKYAEIFGLTSAEASKDIRQA LKSFAGKEVVFYRPEEDAGDE KGYESFPWFIKRAHSPSRGLYS VHINPYLIPFFIGLQNRFTQFRLS
13436	43804	A	13516	2	199	WRKKSLDIPPLIIPNGIVKNILRH FSQLLNPITRPFWSILRPF*RP* RKISTSFIRPLFTFLPA
13437	43805	A	13517	1	1887	

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13438	43806	A	13518	125	828	ECRKHTKLKLQPTIWHVLKI/Y NSEKLLVYRKLLQVLTGLYKRS NLGVRLYACCGLLCPAYPQH FAHGYPVDKIPGYPRAGTLTGL HPMQCDNLKTCHTSHGSVMAE TAVINHKKRKNSPRIVQSNDLT EAAAYSLSRDQKRMLYLFDQIR KSDGTLQEHDGICEIHVAKYAE IFGLTSAEAILRYFIKHSADMEA ITNGMMNLNRQRHQHLVALRII FAHGENGGEEVVHIGHV
13439	43807	A	13519	504	755	EPCFPAHPEFAPLSTGAESHY CCIW*AKYVHQARTL*DQRS*A DHEAYRKTAVRRCSTTQQAW EQLVHQQHILPSSCRYPG
13440	43808	B	13520	1	1980	
13441	43809	A	13521	923	1063	
13442	43810	B	13522	1	1932	
13443	43811	A	13523	383	1383	RKVFFIALKRMPAMKKAMNLF LGLSNVRTVHPEGFTVYISTHIS FPSLSGYKTRLRSFGLVKQKKS PILLEVLAREIRQE/KEIKGIQFG KEEVKLSLFADDMIVYLENPIV SAQNLLKLISNFSKVSQYKINV QKSQAFLYTNNRQTESQIMSEL PFTIASKRIKYLGIQLTRDVKDL FKENYKPLLNEIKEDTNKWKN PCSWVGRINIVKMAILPKLSRM HGRPHQPPNAASTLPFPKRSH YGQKSERLSRSGDNRKSHPECR HWQSCAKKSRCCLAFTRTVRHT PRSAAYLLTRTIELLESSALWHV QTQRIYAPLYETLDPGNRTHCE
13444	43812	B	13524	107	1000	
13445	43813	A	13525	1778	1897	
13446	43814	A	13526	273	421	SHPPFFSTDWSTDGVRKSIWC HRNCRW/RVAVVKLLHLPKVII VFSSAS
13447	43815	A	13527	273	697	SHPPFFSTDWSTDGVRKSIWC HRNCRW/RVAVVKLLHLPKVII VFWLASWMMRWLHYPDWVT IIAQQVLMNVVSVMQADCRMN LLEIFLRWLMRIIFHVRLLPAVS TPTNCLNQLLFFLTPVNYLPG QSGTTVPLVSSV

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13448	43816	A	13528	273	688	SHPFFSTDWSTDTGVRKSIWC HRNCRW/RVAVVKLLHLPKVII VFWLASWMMSRWLHYPDWVT IIAQQVLMNVGSVMPADCRMN LLEIFLRWLMRKIFTTGLRSFGL VKQKKSPIRMPCVYTNPVSIV SRMGQASSL
13449	43817	B	13529	1	1053	
13450	43818	B	13530	1	1869	
13451	43819	A	13531	120	430	EDLSDTGVRKSIWCHRNCRW/ RVAVVKLLHLPKVIIVFWLASW MMSRWLHYPDWVTIIAQQVL MNVVSVMQADCRMNLLEIFLR WLMRKIFHSSLEDPRNWHL
13452	43820	B	13532	148	334	
13453	43821	A	13533	2	147	TSMDKGLQGALKKKI*DL*KK* LKNIPVDKWITPREVFSGIVCK QNI
13454	43822	A	13534	151	325	KAICHNTFSKPSMDKGL/LRRS KKEGFKTYKKNIYKNIPVDKWI TPREVFSGIVCKQNI
13455	43823	A	13535	283	406	HRTKISIVPEGIFKSFSPLAGIM TEQYFL*TLHRLRLIM
13456	43824	B	13536	1	1902	
13457	43825	A	13537	508	1041	LWREASKDIRQALKSFAGKEV VFYRPEEDAGDEKGYESFPW/C YQT\WHSPSRGLYSVHINPYLIP FFIGLQNRFTQFRLSETKEITNP YAMRLYESLCQYRKPDGSGIVS LKIDWIIERYQLPQSYQRMPDF RRRFLQVCVNEINSRTPMRLSYI EKKKGRQTTHIVFSFRDITSMTT
13458	43826	A	13538	1	1422	
13459	43827	B	13539	1	1002	

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13460	43828	A	13540	1	160	MVLIVAATVVVVVVVGLCWM AKSECRSAMRLSSLQVRIFTYLI GREAAFADNLKWMACANKES ALLDRFIFLILLCKEPWECHCL PLFKVAMPSKCDIPVICAHINIG FTLRQLRGFGPCNIGSFEAKDS KNPQVRVISQKHKALRCIWFIT CSICNPEFTEGALQGNKQRKRQ CLQWFRAKALESNEPGFEFIQD KLLTQSLCFFPYTFLWLTGPHPS GSSYTDPCSSKADVTPSSTAVQ EHSSALELKTIVSPITRQQHGF FTQISTLADVQENVMEYLHVLS RPKVIDQEHDVVWTEAYIDSTV CRVKRRQLLLQQVPLTRKQQF LPAPYVDLDSARTRTNKQQQN PIIYTGSKQGSHVILFHYGESWN LLRADQRLIFAKSWPRASRYQQ GHQDLFILRSDLPSQVFIRDKL MERRNRRTGRTEKARIWEVTD RTVRTWIGEAVAAAAADGVTF SVPVTPHTFRHSYAMHMLYAG IPLKVLQSLMGHKSISSTEYTK VFALDVAARHRVQFAMPESDA VAMLKQL*QPQWWWWSW*D CAGWRKVNAAPCVCLPFRFA SSHTSLDERLRLQTI
13461	43829	A	13541	48	668	
13462	43830	A	13542	1	1278	
13463	43831	A	13543	100	157	
13464	43832	A	13544	1	1122	
13465	43833	B	13545	1	1131	
13466	43834	A	13546	273	812	SHPFFSTDWSTDGVRKSIWC HRNCRWESPS*SC/WHLPKVIIV FWLASWMMSRWLNYPDWVTII AQQVLMNVVSVMQADC\KRIC WKYFCAG*CGKIFTYQ**TWN NTETSMSQKPKMKRI/YSREE LAV*KMDHHSDLISLW*KLEPL TCRSTSHFRQKLAQGFPVSTGT PGFIYSAK
13467	43835	B	13547	1	987	

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13468	43836	A	13548	246	2065	LVGWLDGWLDGWLIVALPFM MIPWHSSIQPFTIHPFNWNFG*M PELCPQIGMDSWLAGWM/CWL DGWLDGW*MAKLRKPVL*PD KEGNEIWVDMYTVKPSGWTVR TFDKPRKRFIAFFIAGILFRAIKN HFLPRETLQCLPYILTGFRRGQS EYFSIFSNDLADTVMFLIVAL PFMMIPWHSSIQPFTIHPFNWNF G
13469	43837	A	13549	2	118	
13470	43838	A	13550	397	729	THGIRIGDFFCFTKRKLKRPVL* PDKEGNEIWVDMYTVKPSGWT VRTFDKPRKRFIAFFIAGILFRAI KNHFLPRETLQCLPYILTGFRRG QSEYFSIFSNDLADTVMFL
13471	43839	A	13551	147	417	SSSWGRSSPQLVCGIFQTAGPQS LCKWNQ*VLAQTNKKTAGTSA DLYVPV*QL*RKAVVLPTNAP WRFWRTRQEWFSRGRSGYQS QET
13472	43840	A	13552	1	2418	
13473	43841	B	13553	1	1848	
13474	43842	A	13554	188	490	EWRNVCVGTGTEKVTPSAAAA ATASPIQVLTVLSVTSQIRAFSV LPVRRLLRRSMLSRLNTCVNRF CNPIKKGMRYGILCPL*SLLDGL CARLINQKDS
13475	43843	A	13555	83	440	SLLFKCSGVIVLRRPLGYRQVM NVTRRCLLRTHWMISLLFY*L VNRHRRSVEEYLVSYTLPMGV AVVKLLHLPKNFVSLITPRGRL EKERAFLFQHMRISITGLKIFV MHTSCPMVVC

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13476	43844	A	13556	1337	2583	QQR*MCQNLMT*HQNQRSGR SQNDF*RRRNISERSAVYR*R QLYIRRPYAERPS\HVEDKGH KYLVEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIIELNND YTLKKVMKPLITSNTVFIRDKL MERRNRRTGRTEKARIWEVTD RTVRTWIGEAVAAAAADGVTF SVPVTPHTFRHSYAMHMLYAG IPLKVLQSLMGHKSISSTEVTYK VFALDVAARHRIRKSDGTLQEH DGICEIHVAKYAEIFGLTSAEAS KDIRQALKSFAGKEVVFYRPEE DAGDEKGYESFPWFIKRAHSPS RGLYSVHINPYLIPFFIGLQNR TQFRLSETKEITNPYAMRV TNP CVSIVCVNEINSRTPMRLSYIEK KKGRQTTHIVFSFRDITSMTTG
13477	43845	B	13557	1	696	
13478	43846	A	13558	326	1577	SGLLPIKVAFTKPQFLFILLRIW* AKYVHQARTL*DQRF*ADHEA YRKTA VRRCSQTTQQAWEQSA HQQHIRH
13479	43847	B	13559	1	3822	
13480	43848	A	13560	848	1476	VNVTSFGSRPICSTSPVLFSG* GPVKEFDT*PSM*ISFELIPSIVIF EPRESVNKYHLPFILKTFARSISS VTVFEVISGFITFFNV*SLFNMI PRAPFANSASRFLALC*SFWLSL RKKFVPPP*YALLNKDSSPW/SS VFCSRVGFEYKVFMAFVFN RVSQRMVVAGCIAFIDKLLNV LICFSVSVKNRFVIFHSVDFECV
13481	43849	A	13561	1	2196	
13482	43850	A	13562	326	3746	SGLLPIKVAFTKPQFLFILLRIW* AKYVHQARTL*DQRS*ADHEA YRKTA VRRCSQTTQQAWEQSA HQQHIRH*SCRYPS*ARCQ*LTG QIVHRGEKKEQQLI
13483	43851	A	13563	3802	4075	IRCFTYSPAGYFPRFRAVILLC NGDSLRFMTSVYALQEAAAE VRHTLVTLRQLVTLYPDVFQ RDDA*AIRAYDTDTGIRINAWH TDW
13484	43852	A	13564	1708	3198	
13485	43853	A	13565	1	1401	
13486	43854	A	13566	1214	1357	NKINMFIAALFTIAKTWNQPK\ CPTMIDWIKKRGSSRVASSSPT RTR

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13487	43855	A	13567	3363	3852	SHPPFFSTDWSSDTGVRSKSIWC HRNCRW/RVAVVKLLHLPKVII VFWLASWMMSRWLHYPDWVT IIAQQVLMNVVSVMQADCRMN LLEIFLRWLMRKIFHVRLLPAV STPPNCLNQLLLFFLTPVNYLPG QGFAGFRNPPSNRIFACWGKPA WTACCNSLRARR
13488	43856	B	13568	350	742	
13489	43857	A	13569	248	599	HRDSYKRMAYGLVISVVSLSR KLRKPVL*PDKEGNEIWVDMY TVKPSGWTVRTFDKPRKRFI FIAGILFRAIKNHFLPRETLQCLP YILTGFRRGQSEYFSIFSNDLA DTVMFL
13490	43858	B	13570	1	2148	
13491	43859	A	13571	3064	5069	RSDPDENCC*TGH*STLFNWC WRNALSIEWPVCNEIFYRLIKPR WEIRWGKRAPVIPKHTLNTQPV EDTSLSTPAAPMVDSLIARVGV MARGNAITLPVCGRDVKFTLE VLRGDSVEKTSRVWSGNERDQ ELLTEDALDDLIPSFLLTGQQTP AFGRRVSGVIEIADGSRRRKAA ALTESDYRVLVGELDDEQMAA LSRLGNDYRPTSAYERGQRYAS RLQNEFAGNISALADAENISRKI ITRCINTAKLPKSVVALFSHPRQ APCMKSNNALIVILGTVTLDAV GIGLVMPDLALKGLRVLLVEG NDPQGTASMYHGWVPDLHIHA EDTLLPFYLGEKDDVITYAIKPT CWPGLDIIPSCALHRIETELMG KFDEGKLPTDPHMLRLAIETV AHDYDVIVIDSAPNLGIGTINVV CAAHALIVPTPAELFDYTSALQ FFDMLRDLLKNVDLKGFPDV RILLTKYSNSNGSQSPWIEEQIS DAWGSMVLKNVHAIVTGDAV GMDDIPQEARQYRHNQAYAYS IQGDGAEDDDERIVRFHTRVTV DSDTLASDAARLTCRHGLGNQ RNGGVLIEDKFECFFSLTAVFA TRAYYAVYHLTGARHSDIVVA HGYAGCNVRFVALLGTNTTLE TYLSNQGSNGFSCLHFGEDVGG

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13492	43860	A	13572	1408	5578	CSHLLIIQLANQNTIITFGKCSSF TTATPIGNFYDTRYSS TERRCLL TSQ*KRRDEIIQCVLSKQL\RAR SLPDPTRKVFSTLSPRSTFRVNF TSRPHTGKVWAFREPFLPPHL RKPDTDTGYLYKRMA YGSVIS/ ICFTKPKLRKPVL*PDKEGNEIW VDMYTVKPSGWTVRTFDKPRK RFIAFFIAGILFRAIKNHFLPRET LQCLPYILTGFRRGQSEYFSIFS NMDLADTVMFL
13493	43861	A	13573	2678	2884	SAPLQRNTARRFLLFLKACSNR FCYR\WRHMTAIPSYNRSKLREI KGGLYHMGIFRRFLASKETPTF CY
13494	43862	B	13574	1	7903	
13495	43863	A	13575	1	880	
13496	43864	A	13576	1	996	
13497	43865	A	13577	763	778	NRCEPPV*GTRFSQQLLLALKA TLLEELYALT VHSWRPKW
13498	43866	A	13578	2	254	
13499	43867	A	13579	1	2358	
13500	43868	A	13580	206	382	
13501	43869	C	13581	1	1137	
13502	43870	A	13582	79	906	
13503	43871	A	13583	2	383	SPPEVVRLGYHPPRHGHQ\HLF ASCRKGDVGRVRP*TRPDGSD LLPAQVPAGAARRGGTMPACV GTRSWYSTFWPMEPAARPTPS MVSAASMGH*VTPSAGLYAITS RSRLPAGGGITMTTSCSGF
13504	43872	A	13584	1	1092	
13505	43873	A	13585	173	262	
13506	43874	A	13586	898	1391	QLGILRVNLLGIDLRVTGHQAA PPLHLLDLLQMH/SSPPCRPQ*A TSSPPPSLRCRAPH R*SLAAP*A PPRP SLSAGSPHRKGP GPAPT GSWSSGNQAGLPCCLGWASVF LCPSHLPPHLPQSSASLAFHRV KHLIHLHNSVIDKMKYQLKFLC LLGEYLSV
13507	43875	A	13587	1	960	
13508	43876	A	13588	1318	1369	RDFHPK*HTIGIQYIWQQLEINQ CDTSLSMVLP\R* RDFHPKSHLL PGAAQIQ
13509	43877	A	13589	212	385	
13510	43878	A	13590	377	505	
13511	43879	A	13591	69	193	CSLRSLAQMLPFYPRRSLCLSCS L**PHCCLWLAALRSESK
13512	43880	A	13592	1	230	
13513	43881	A	13593	2	341	

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13514	43882	A	13594	1	2421	
13515	43883	A	13595	1	623	
13516	43884	A	13596	1	906	
13517	43885	A	13597	1	568	
13518	43886	A	13598	107	199	
13519	43887	A	13599	42	328	GGASGVCSF*CSE/LSSFWWVR GLAGSGVKLQTFATQEPSWLH PVDVPVGLQVELPASPAPCART PQPLGGRWDSAPWSRGRSSG AHGIDVALLP
13520	43888	A	13600	5	124	IWILWFFVSLT*RSRGPSQ*VLQ LIKAPHVDLLVVTFC
13521	43889	A	13601	827	973	IHQSAICI*LKFYTSLTHPVISLV VETLVWW*YLMK*KKLWSWI RGRG
13522	43890	A	13602	2	503	
13523	43891	A	13603	56	792	
13524	43892	A	13604	1	411	
13525	43893	A	13605	1	1554	
13526	43894	A	13606	1	363	
13527	43895	A	13607	1	966	
13528	43896	A	13608	932	1189	
13529	43897	A	13609	146	323	
13530	43898	A	13610	1	1827	
13531	43899	A	13611	2	412	
13532	43900	A	13612	1	2238	
13533	43901	A	13613	2	411	GATDCVCYYTVGFNDTKTSAL HMVVGDSLAMDVSSVHHNSTL LRYSVTLLGYGFYGDIIKDSK KRRLGLARYDFLCIKTFFSHH* YEGTVTFLPAQHTVGSPDRKP CRAGCFVCRQSKQQLLEEQKT ALYGLEL
13534	43902	A	13614	3	2185	
13535	43903	A	13615	206	1568	
13536	43904	A	13616	165	417	TWDYIRPNE*YM*MAKKKMP MD\VWCNGKNWRPAG\EFVDD GTETHFSIGNHDCYIKA VSSGK RKEGIIHTLIVDNREIPEIAS
13537	43905	A	13617	463	837	
13538	43906	A	13618	1	765	
13539	43907	A	13619	3	510	AGVHKIEFEHGTTSGRVYV DGKEEIRKEWMFKLVGKETFY VGA AKTKATINIDAISGFAYEY TLEINGKSLKKYMEDRSKTTNT WVLHMDGENFRIVLEKDAMD VWCH\GKKIRRPAGEFVDDGTE TPLQYPGPMTCYIKA VSSG\KR KEGIIHTLIVDNREIPEIAS
13540	43908	A	13620	342	585	
13541	43909	A	13621	1	1119	

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13542	43910	B	13622	48	1104	
13543	43911	A	13623	656	916	GWRKYLQGAADMGIAEGGGS VWSSWASSSLISVPVR*LCESTQ RSAPGWPPLTGGSCSESVALWL CVNDFEFQMRLMPSRDSEPAC
13544	43912	A	13624	179	682	
13545	43913	A	13625	1	7511	
13546	43914	A	13626	56	8669	
13547	43915	A	13627	42	8716	
13548	43916	A	13628	1	2457	
13549	43917	A	13629	3	571	
13550	43918	A	13630	1	867	
13551	43919	A	13631	1	2238	
13552	43920	A	13632	171	396	
13553	43921	A	13633	1	3940	
13554	43922	A	13634	554	619	
13555	43923	A	13635	1	1359	
13556	43924	C	13636	208	359	
13557	43925	A	13637	2	513	PSHDHSLGTRASGKVILHGEH AAVHGKVALAVSLNLRFLRL QPHSNGKGDLSLPNIGIKRAW VARLQSLDTSFL/RWTKEDLELI NKWAFQGERMIHGNPSGVDNA VSTWGGALRYHQKISSLKRSP ALQILLTSTRGAPRNIRALVGGG RNRLALEVPDMGGPILLSW
13558	43926	A	13638	3	1331	RVDDFVGELLRLRRGGAADVE AAAAAGFPGAMLSQVLLVSAP GKVILHGEHAVVHGKVALAVS LNLRTFLRLQPHSNGKVDNLNLP NIGIMRAWVARLHSLDTSFLG ECKEEKPEQGDVTTPTSEQVEK LKEVAGLPDDCAVTERLAVLA FLYLYSICRKQRALPSL\DIVV WSELPPGAGLGSSAAYSVCLA AALLTVCEEIPNPLKDGDCVN RWTKED\LELINK\WAFQGER MIHGNPSGVDNAVQHLGEGA LRLPSRGRFSFL*RGSPVFQI/LG LTNTKVPSAITRALVAGVRNRL LKFPEIVAPLLTSIDAISECERV LGEMGEAPAPEQYLVLEELIDM NQHHLNALGVGHASLDQLCQV TRARGLHSLTGAGGGGCGITL LKPGLQPEVEATKQALTSCGF DCLETSGAPGVSIHSATSLDSR
13559	43927	A	13639	1	950	
13560	43928	A	13640	1	1653	
13561	43929	A	13641	1	2601	
13562	43930	A	13642	2	513	
13563	43931	A	13643	47	367	

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13564	43932	A	13644	1	633	
13565	43933	B	13645	1	1110	
13566	43934	A	13646	172	1095	
13567	43935	A	13647	1	855	
13568	43936	A	13648	3	440	
13569	43937	A	13649	2	230	
13570	43938	A	13650	2	606	AEFDLCCSPCRRRLGREEAGE EPTSPVTQYLQPRSPEECKMFA CAKLA\CTP\SLIRAGSRVAYRPI SASVLSRPEASRTGEGSTVFNG A\QNGVSQLIPKGSFKTSAISKK TLDTAAKFIG\AGAGNS*GVG WFLVAGIG\TVFWASLIHWVM ARKPFRWKQQLFSY\AILGICL VLKAMGSPFVLMVAFLILFAHV TEITA
13571	43939	A	13651	200	2320	
13572	43940	A	13652	224	640	
13573	43941	A	13653	1	357	
13574	43942	A	13654	43	183	
13575	43943	A	13655	3	478	SSAGREPDPDDLPRRLCFTHRLP AARRWVQLCVHASPEPGGQGV CPGRSERMVIRVFIASSGFVAI KKKQQDVVRFLANKIEFEEVD ITMSEEQRQWMYKNVPPDKKP TQGNPLPPQIF\NGDRYCGDYD RLFESKESNTVFSFLGLKPRLAS KAEP
13576	43944	A	13656	2	428	CRDGKDVVSLVRATVWALSKR KLQPTRA/ALTPTPSAVNLIKQF LKDKPELVDVKVGVTRGCGNG LSYTV EYTKTKGNSDEVIQDEA RVFIEKKAQLTPLGTEMDYVED KLSSE/FMFNNPT*TCGCGAPGK LVETLGLTEEIM
13577	43945	A	13657	1	1377	
13578	43946	A	13658	1	1215	
13579	43947	A	13659	1	452	REA EAADLRSEAPGRRDGEDV GFLSSGQLSGLCSKRKLQPTRA ALTPTPSAVNLIKQLLKE*P*AC RLKVGVRTRGCGNGLSYTLEYT KTKGDSDEEVIQDGV RVFIEK\K AQLTLL*TEMDYVEDKLSKGV GVH\SPNIKGTGCGGESFNI
13580	43948	A	13660	3	763	
13581	43949	A	13661	1	306	
13582	43950	A	13662	738	1022	GQHHPETKAWQRHNKKREF*T NILDEH*CKNPH*NTGKPNPAT HQKAYPP*SSGLHPWDARLVQ HTKINKCNPAYKQNQRQKPHD YLNRCRKGL

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13583	43951	A	13663	2	516	QKIDLPEYQGEPDEISIQKCQEA VRQVQGPVLVEDTCLCFNALG GLPGPYIK\WFLEKLKP\EGHLHQ FLAGVEGKS\AYALCTFALSTG DPSQPVRLFRGRTSGRI\APRA CQDFGWD\PCFQPDGYEQTYAE MPKAEKNA\SHRFRA\LLELQ EYFGKFGQLDFCKLEAGPFR
13584	43952	A	13664	7	227	
13585	43953	A	13665	1	415	
13586	43954	A	13666	234	510	
13587	43955	A	13667	2	402	
13588	43956	B	13668	530	1544	
13589	43957	A	13669	1	603	
13590	43958	B	13670	1	1527	
13591	43959	A	13671	1	1179	
13592	43960	A	13672	2	413	
13593	43961	A	13673	100	374	KHISPALKALELPFERNLII/PLQ LLKVIRILKEGEM/DI*HWFL** GMGTVQKGMPHKCYHGKTGR VYNVTQHAVGIVVNKQVK*VV
13594	43962	A	13674	1	1035	
13595	43963	A	13675	2	564	GPFGRNRHLPVIRQNDGPQRGK RRGTPKYVF*/RPFRK\HGGGPL GPPYM\RIYRKGDIVDIKGMG\ TVQNGMPHKCYHGKTGRVYN VTQHAVGIVVNK\QVKGKILA K\RIINVRIEHIKHSKSPR*ASLK/ RVLKENDQEKERSPKKKGTTWG SNLKRHPAPPQKKHTL*RTNGK EPEL\LEPIPYEFHGHN
13596	43964	B	13676	68	391	
13597	43965	A	13677	1	404	PTRTWTRGRIPRLSAPPSRGAR GTMADPRVRQIKIKTGIVVKRL V\KEKVL\YEKEPKQ\QEEKIEKM RAEDGENYDIKKQAEIL\QESR MMIPDCQRRLEAA\YLDLQRILE NEKDLE\EAEEYKEARLV\LDLV KLEA
13598	43966	A	13678	1	436	LLLACRSMDCYLAIVHATRTLT QQRHLVKFICLGLRNLFLLSL RILLFRRTFYPSNVSPVCYEDM GNNTANWWMLLRILPQSFGFIV PL/LIMLFCYRFTLHTLFKAHMG QKHWTMWVIFADVLIILLCWL PYNLVLLADTIMGT
13599	43967	A	13679	1	705	
13600	43968	A	13680	292	1489	
13601	43969	A	13681	434	1205	
13602	43970	A	13682	1	390	

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13603	43971	A	13683	21	479	TYPEAWKLYYRSR*SRDLRKY HAHSVSP*QDQRYTS*KILKCD EHIQKLGSCITDPGNRETSGNT MHTVFHRDKTKDTHPESCCSSE KGGQPLPWFEHRKNVPQFAEP TETLFGPDSGKGAKSLVELLDE SECTSDEEIFISQDEIQSFMANN QSFYSNREQYRQHLKEKFNKY CRLNDHKRPICSGWVDNGWEA
13604	43972	B	13684	32	438	
13605	43973	A	13685	533	1226	
13606	43974	A	13686	1	1566	
13607	43975	A	13687	215	453	
13608	43976	A	13688	1	553	RRPARAAVIKQPPAPGASQHAA TPTQTPLCTPARPLPPMAHVQQ LEGRWRLVDS\KGF**NTMKE\N GVT\IALRKMGRNAQAQICIITS DG*NPSPLKTESTLKT\TQFSCT/ LWGEKFEETTA\DGQKKLTNCL STFPDGA\LVQHQEWDGERKS T\TKKN*KDGEISWLECVMNN VTCTPDSMKK
13609	43977	C	13689	11	106	
13610	43978	A	13690	3	155	LCELQKAIDLFTDAIKLNPR LAI LYAKRASVFVKLQKPNAAIRD CDRAIEINPDSAQPYKWRGKAH R*ILAWPFCMPRGPVSSSNYRS QMLPSETVTEPLK
13611	43979	A	13691	1	1732	
13612	43980	B	13692	95	1715	
13613	43981	A	13693	1	446	
13614	43982	A	13694	1	786	
13615	43983	A	13695	88	828	

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13616	43984	A	13696	157	1515	RREKMAELKYISGFGNECSSED PRCPGSLPEGQNNPQVCPYNLY AEQLSGSAFTCPRSTNKRSWLY RILPSVSHKPFESIDEGHVTHNW DEVDPDPNQLRWKPFEPKASQ KKVDFVSGLHTLCGAGDIKSN NGLAIHIFLCNTSMENRCFYNS DGDFLIVPQKGNLLIYTEFGKM LVQPNEICVIQRGMRFSDIVFEE TRGYILEVYGVHFEPLDLGPIG ANGLANPRDFLIPIAWYEDRQV PGGYTVINKYQGGKLF AAKQDV SPFNVVAWHGNYTPYKYNLKI NFMVINSVAFDHADPSIFTVLT AKSVRPGVAIADFVIFPPRWGV ADKTSGPPYYHRINCMKRFME LIRGQFEQKQGWFLPGGRG/SL HSTMTPHGPADADCFEKASKVK LALKRIADGTMA\FMF*SSFNLA GPKWGLQAPRVLDKNYPKCW EPLKSPF\TPNSRNPAPEN
13617	43985	A	13697	1	156	
13618	43986	A	13698	8	306	
13619	43987	C	13699	1	1143	
13620	43988	A	13700	1	1551	MRKDSCASSMHQQVSRSKKRA GQKTPPEDQEGGQRALRSSHIR LGQFLLIEDCKTPSPSSLGADAI AKQRKTSVSAAASVSATIPIRR VQGPTVVGSWARGVSAAASGP RGTGPKGKARSEKGCSLSHGPQ TNKPLVVQKGQKMEQANHPV GLVISVVYKDILKKIVQRETSHP LIHVRVYAEAITGRRTAPEDKGS LGRDMLAKAGAIHYMNMGKNL PIWCHLLEEGIYLEVWALEGQF GRAKNACPVQIRLKDPTTFPYQ RQYPLRPEAHKGLQDIVKHVK AQGLVKKCSSPCNTPI LGVQKP NGQWSLVQDLRLISEAVIPLY VVPNPYTLLSQIPEEAEWFPVL DLKD AFFCIPLHYDSHDSQFLF AFEDPTDHTSQLIWTVLPQGFR DSPHLFGQALAQDLGHFSSPGT LVLQYVDDLLATSSEASCQQA TDLNLANQGYKASRSKAQ LCLQQVKYLGILARGTRTLGK ERIQPILAYPHPKTLKQLWGFL QIT/GFCQLWIPR*SKI
13621	43989	A	13701	188	688	

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13622	43990	A	13702	636	2628	SNDRTEDDCGKHPPFMSSPPATEP WVCLIEGQEIDFLDGTTFVS LIPCLGRLSSRSVTIQGILGQPVT RYFSHLLSCNWETLLFSHAFLV MPESPTPLLGRDILAKAGAIISM KTGNKLPICCPLEGINPEVWA LEGQFGRAKNAHPLQIRLKDPI SFPYQRQYPLRPEAHKGLQDIV KHLKAQDSVRKCSSPCNTPILG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYTLLSQVPPEAEW FTVLDLKD
13623	43991	B	13703	302	619	
13624	43992	A	13704	1	5172	
13625	43993	A	13705	1	2091	
13626	43994	A	13706	1	1754	GPRGTGPKGKARSEKGCSSLSHG PQTNKPLVVQKGQKMEQANHP VGLVISVVYKDILKKIVQRETS HPLIHVRYAEAITGRRTAPEDK GSLGRDMLAKAGAIIMNMGN KLPIWCHLLEEGIYLEVWALEG QFGRAKNACPVQIRLKDPTTFP YQRQYPLRPEAHKGLQDIVKH VKAQGLVKKCSSPCNTPILGVQ KPNGQWSLVQDLRLISEAVIPL YPVVPNPYTLLSQIPEEAEWFP VLDLKDAFFCIPLHYDSHDSQF LFAFEDPTDHTSQLIWTVLPQG FRDSPHLFGQALAQDLGHFSSP GTLVLQYVDDLLATSSEASCQ QATLDLLNFLANQGYKASRSK AQLCLQQVKYLGLILARGTRTL GKERIQPILAYPHPKTLKQLWG FLEITGFC*LWIPGYSKIARPLYT LIKETQRANTHLVEWESEAETA FKTLKQALVQAPGLSLPTGQNF SLYVTERAGIALGVLTQTRGTT PQPVAHLSKETDVVAKGWPHC LRVVAAVAVLVSEAIKIIQGKD LIVWTTHEVNGILG/AKGSLWL SDKRLFRYQALCLEGLVLQIRT SCGSHLAVTRLWALYF
13627	43995	A	13707	2	887	

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13628	43996	A	13708	3	1750	GWAVPRPGPRGLTVATEAAAA AAAAAAAAAISSRTRAPQAPEGR NRRLEKMADDIDIEAMLEAPY KKDENKLSSANGHEERSKKRK KSKSRSRHERKRSKSKERKRS RDRERKKSKSRERKRSRSKERR RSRSRSRDRFRGRYRSPYSGP KFNSAIRGKIGLPHSIKLSRRRS RSKSPFRKDKSPVREPIDNLTPE ERDARTVFCMQLAARIRPRDLE EFFSTVGKVRDVRMISDRNSRR SKGIAYVEFVDVSSVPLAIGLTG QRVLGVPPIVQASQAEK\NRAA AMANNLQKGSAGPMRLYVGSS HFNITEDMLRGIFEPFGRIESIQL MMDSETGRSKGYGFITFSDSEC AKKALEQLNGFELAGRPMKVG HVERTDASSASSFLDSDELER TG\IDLGTTGRLQLMARLAEG TGLQIPPAAQQALQMSGSLAF GAVGRNLFCYRFAKQDFSHQT ETSALSAAAS\VQPLATQCFQLS NMFNPQTEKEVGWDTEIKDDV IEECNKHGGVIHIYVDKNSAQG NVYVKCPSIAEAI\AAVNALHGR WFAGKMITAAAYVPLPTYHNLF PDSMTATQLLVPSRR
13629	43997	A	13709	141	343	LHEGLLP*RGHALLSGALHG*C VGSCLFSTPRCLTSSTACGYPSS CTPGSCTAWCPSASRRLSCWT
13630	43998	A	13710	5	426	
13631	43999	A	13711	1	1188	
13632	44000	A	13712	2	264	NKQPIWIPSRHLKPYHEPDAKE EIPGGS*GPTSCSHVETDAEEDP NCHEQHLSNTATHLGTQDEAVI DGRRKPEESRTTSHICRCRS
13633	44001	A	13713	1	700	
13634	44002	A	13714	3	483	
13635	44003	A	13715	2	361	RRFRAGAGYVVESTGVFTTME KAGAHLQGGAKRVIISAPSADT PMFVMGVNHEKYDNSLKIIISNA SCTTNCLA/PPASTGAAKAVGK VIPELNGKLTGMAFRVPTANVS VVDLTCRLEKPA
13636	44004	A	13716	2	249	SADAPMFDMGVNHEKYDNSL NII/SVMKAGPVEKRPAWHPMD TLP*LAPRSLFLCSNASCTTNCL EPLAKVIHDNFGIVEGLMV

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13637	44005	A	13717	1	1079	GTRRQSAASSFASPAEHRSDT MGKVKVGVNGFGRIGRLVTRA AFNSGKVDIVAINDPFIDLNYM VYMFQYDSTHGKFHGTVKAEN GKL VINGNPITIFQER\YPSKIKW GDAGAEYFVESTGVFTTMEKA GAHLQGGAKRVIISAPSADAPM FVMGVNHEKYDNSLKIISNAIS CTTNCLT\PLAKVIHDNFGIVEG LMTTVHAITATQKTVDGPSGKL WRDGRGALQNIIPASTGAAKA VGKVIPEL\NGKLTGMAFRVPT ANVSVDLTCRLEKPAKYDDI KKVVKQA\SEGPLKGILGYTEH QVVSSDFNSDTHSSTFDAGAGI ALNDHFVKLISWYDNEFGYSN RVVDLMAHMASKE
13638	44006	A	13718	3	483	
13639	44007	A	13719	2	361	RRFRAGAGYVVESTGVFTTME KAGAHLQGGAKRVIISAPSADT PMFVMGVNHEKYDNSLKIISNA SCTTNCLA/PPASTGAAKAVGK VIPELNGKLTGMAFRVPTANVS VVDLTCRLEKPA
13640	44008	A	13720	2	249	SADAPMFDMGVNHEKYDNSL NII/SVMKAGPVEKRPAWHPMD TLP*LAPRSLFLCSNASCTTNCL EPLAKVIHDNFGIVEGLMV
13641	44009	A	13721	1	1079	GTRRQSAASSFASPAEHRSDT MGKVKVGVNGFGRIGRLVTRA AFNSGKVDIVAINDPFIDLNYM VYMFQYDSTHGKFHGTVKAEN GKL VINGNPITIFQER\YPSKIKW GDAGAEYFVESTGVFTTMEKA GAHLQGGAKRVIISAPSADAPM FVMGVNHEKYDNSLKIISNAIS CTTNCLT\PLAKVIHDNFGIVEG LMTTVHAITATQKTVDGPSGKL WRDGRGALQNIIPASTGAAKA VGKVIPEL\NGKLTGMAFRVPT ANVSVDLTCRLEKPAKYDDI KKVVKQA\SEGPLKGILGYTEH QVVSSDFNSDTHSSTFDAGAGI ALNDHFVKLISWYDNEFGYSN RVVDLMAHMASKE
13642	44010	C	13722	40	243	
13643	44011	A	13723	2	2972	
13644	44012	A	13724	1	602	

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13645	44013	A	13725	1	325	MGRNQSRKAENTKNESASSPP KDRNSSPVREQSWTENEFDELT EVGFRKL VITNFSELKEHVLT D HKEAKNLEKS\LEV VAREISQE KEIKVFN*EKRKSNCPCLQMT
13646	44014	A	13726	1	981	
13647	44015	A	13727	1	739	MGRNQSRKAENSKNQSTSSPPK DCSSSPAREQNWTKNFDELTE VGFRSLIANFSKLKECVLTHR KEAKNLEKSDRENGTKLENTL QDIIQENFPNLARQANIQIEIQ RIPQRYSLRRATPRHIIVRFTKV EMKEKMSRAAREKGRVTHKG KPIRLTADLSAENLQARREWGP VFNIK\NFQPRIPYPAKLSFISG GEIKSFTDKQMLRDFTTTRPAL QELLKEALNMERNNQYKPLQK HAKW
13648	44016	A	13728	1	1277	MKEQNGGGGREEDHKDKGIRQ LPSLLPSAGEAKSDKPEHHNRY RKEIASFEDEKRAMGVAKMAE QEQLQSAAPSMTNAEVGTAHG GRAEAGRGVDS PGKRKVLGDF PFLAKGSRDRLPGKAGHSLPKY YAFTKVLATGRQERN SINISKK VIYTKTTSTGHQHQRPKIDKTT KMGRNQSRKAENSKNESTSSPP KGHSSSPATEQSGTENDFDELT EVGFRRSVTTNFYELKEDVQTH RKEAKNLEKRLDKWLTRINSV EKTLSDMELKTMARELRDTC SSFKSRFNQVEERVS VIEDPIYE LSREDKVRDKKVRNKQSLQEI WDYVKRPNLRVIGVPESDGEN GTKLENMLQDIIQENFPNLARQ ANIQIEIQRT PQRYSRRATPR HIIVRFTKVEMKQKVLRAAREK GPVTHKGNSGSL
13649	44017	A	13729	1	1584	
13650	44018	A	13730	493	575	SHLPMNPANTRSQRNPTKKKQ KKNVC/DNIRELEQQMEDAYR GTKRKMLPSSSSRMRS DGFDEE SQRYYWRPKNEISGTLEDDFLK AKSWNRKFYDYEANMPDRWG\ QVAIKSYTLKNLKQTVVISKILP TGRKHLPR*SHLPMNPANTRSQ RNPTKKKQKKNVCG
13651	44019	A	13731	1	655	
13652	44020	A	13732	2	1664	
13653	44021	A	13733	1	2364	
13654	44022	A	13734	1	224	

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13655	44023	A	13735	1033	7511	
13656	44024	A	13736	56	8669	
13657	44025	A	13737	42	8716	
13658	44026	A	13738	1	5046	
13659	44027	A	13739	1	2298	
13660	44028	A	13740	1	2362	
13661	44029	A	13741	1	2046	
13662	44030	A	13742	1	1503	
13663	44031	A	13743	1	813	
13664	44032	A	13744	185	735	
13665	44033	B	13745	317	910	
13666	44034	A	13746	1	867	
13667	44035	B	13747	1	2325	
13668	44036	A	13748	1	430	
13669	44037	A	13749	1	867	
13670	44038	A	13750	35	518	CLSRRASPVYLASMSGRGKTG GKARAKAKSRSSRAGLQFPVG RVHRLLRKGHYAERVGAGAPV YLAA\VLEVAQPLRVLELAGN AA\RSN\KKTRIIPRHLQLAIRND EEL*KLPGLP*RIAQGSR/VLPNI QA\VLLPK\KTSATVG\PKAPSG GKKATQASQEY
13671	44039	A	13751	1	937	
13672	44040	A	13752	1	1096	
13673	44041	A	13753	85	1512	
13674	44042	A	13754	3	2377	
13675	44043	A	13755	1	1134	
13676	44044	A	13756	49	408	
13677	44045	A	13757	47	2603	
13678	44046	A	13758	1	378	
13679	44047	A	13759	1	696	
13680	44048	A	13760	3	401	
13681	44049	A	13761	882	1106	KLHPYTTRQYCHFRI*TDVMAK RSRNAVKGLSALVWCALSDF AGFTPDDGCTRATFTTGGWRK RDCRGAVAGG
13682	44050	A	13762	688	1100	
13683	44051	A	13763	476	552	
13684	44052	B	13764	178	1107	
13685	44053	A	13765	1	198	
13686	44054	B	13766	94	625	
13687	44055	A	13767	1	732	
13688	44056	A	13768	1	4443	
13689	44057	A	13769	216	575	PGAGDRYVGKPVSAAGVTAVSC GVWSSMPDATLIASYQAYTSH VGRIRRSRRJR/TNTARADYPAL TALPFNNFRTNHRFGFNAASVL ASIGIGSSLICAARISAHSGAEH KPREPKAANIK

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13690	44058	A	13770	1018	1489	KLPGQRRFVQTPSHVLHTLSY PTAPAQSSYPAPLSPSQDRAPTL AHQTT*FSASYTANAQWQRVA ADHLKSVRETYAHVRQFSPAL GNAPPDQLPLS*ASCVPKSGAR YSSVIRQNRDRDFRATDHMYVT VPTNRPKMWNPVNTQMNSFRA DTCER
13691	44059	A	13771	1013	1755	GSPGLRPGGAAGKALAPSGCT GNSHRAPM*PGAQAQTRPEKW A*QRP/HVSTGARGARVRALAA VAAAEQAQAGAAVRAAALHT RAAVSAGAARAVVQVVLAAR TREAGAAAAAQGVAQVQAES AIAAWLQAAPVHPLLTVGALE TGWAVADVGRVRVCTPDTQA AVEAGSICTCHPAHLTPQPVEP TRAGAFKGPGLTTAASIGTRV PVTGPRPRDKASGGSRRAPGA EAAAGGDRDRAEGSSPAL
13692	44060	A	13772	1	1236	
13693	44061	A	13773	1	456	
13694	44062	A	13774	1	219	
13695	44063	A	13775	1707	1853	
13696	44064	A	13776	1	615	QLATFFFGGGLPGGSAPWDPPG EACLWVLVRLPGRTVWVIQFV QLRSFFAPPFAHNGRASSGRVS VHYGIAQTAEWAAEICGVGAR KIRELAAIFHQNTIMHFANGG/N PTRRSVLSMQGSLPGGC\DA VDIHPVARIVEALENPGGAYQH NGMNRHFDPDIRFIWWAGGANF THHQDTNRLIRAWQNDYFRK GRIKAKMGPKLF
13697	44065	A	13777	407	661	ANWIKWRWHRAMHSSSSMWQ TANSLASFISAPVTSSSACRSTL PATRYWCI*WRSSAIWKWVILS GPVATRICTATIWIQLICN
13698	44066	A	13778	1	2448	
13699	44067	A	13779	3	1612	
13700	44068	A	13780	1	1626	
13701	44069	A	13781	3	118	
13702	44070	A	13782	1175	1396	
13703	44071	A	13783	197	933	
13704	44072	A	13784	2	64	IILLNSAPAWM*TFKLGPGVDV NYMLHTQNK
13705	44073	A	13785	1	855	
13706	44074	B	13786	1	1605	
13707	44075	A	13787	1	588	
13708	44076	A	13788	1	2769	
13709	44077	A	13789	813	1341	

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13710	44078	B	13790	1	999	
13711	44079	A	13791	1	281	
13712	44080	A	13792	1	1332	
13713	44081	A	13793	1	1384	MPITLRRSVEKEQLIEIANTIMPF GKYKGRRLLIDLPEEYLLWFARK DEFPAEARYTHIDLHVPAPLL MFTLDTRQSACDRNPHLPIHVC SSWTSPKCAPRLWTRALLPRTR TPPYATGTTIGSRASWFVTFPD ASFYRRKAPRQEFHTSLQGRSL YVRQRSTANPTEITRRTLIHKM VEVNACLKQLDNKDIADYEHN QLMRRLRQLIAQSWHTDEIRKL RPSPEAIMTEQEKTSAVVEETR EAVDTSQPVAT
13714	44082	A	13794	1	2004	MTQQITLIKDKILSDNYFTLHNI TYDLTRKDGEVIRHKREYVDR GNGATILLYNTKKKTIVLIRQF RVATWVNGNESGQLIESCAGL LDNDEPEVCIRKEAIEETGYEV GEVRKLFELYMSPGGVTELIHF FIAEYSDNQANARGGVEDEDI EVLELVQCGGQIGVPDVLAVF ATGIGFLAMSVTKPRINAQPYP MPWRNLAQLVEHINRTRIHRNL QFTDAFKRRLIDNICRKNNIIGT HTGQSKFSGQTQQIFGEIPQVVP ASELAAAMKQIKELQRLLGKK TMENELLKEAVEYGRAKKWIA HAPLLPGDGERTDDWMDGRRS RHTDDTDVLLRIHHVIGELPTY GYRRVWALLRRQAELDGMPI NAKRVRIMRQNALLERKPA VPPSKRAHTGRVAVKESNQRW CSDGFEFCCDNGERLRTVFALD CCDRLSSRGRNAAAKRQRDDP LRWKFRLPSSGGTKLLMPLDQQ APARFAPFVTCTLTILCGTGHV VYTILPIIYDVAIKNNIRPERPM AASSIGAQMGIASPVSVAVVSL VAMLGNVTFDGRHLEFLDLLAI TIPSTLIGILAIGIFSFRGKDLD KDEEFQKFISVPENREYVYGD ATLLDKKLPKSNWLAMWIFLG AIAVIALLGADSDLRSSF/GGKP

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13715	44083	A	13795	3	918	DKTRKRRIRQ*IPNATSFLYQNS PONGLSE*LIPAGTWFAGNAPASS CGFRDRYLIVCSHQTPHVPQQI TVAAPDARAQAILRIVRQLQRF FHRFEGGHRQHRAKNLLEHP HIVLTKQNRREFADALQPDPA WQQGTLSNGLQWQVLTTPQRP SDRVEIRLLVNTGSLAESTQQS GYSHAIPRIALTQSGGLDAAQA RSLWQQGIDPKRPMPPVIVSYD TTLFNLSLPNNRNDLLKEALSY LANATGKLTITPETINHALQSH DMVATLVFRYLKKGWWRYL KGSTLLSHDPAHPLKQPVEAEK
13716	44084	A	13796	1	1368	MCPIEETASSFGGKPLSMVLVIQ MFMLLTGALIIILTKTNPASISK NEVFRSGMIAIVAVYGIWMA ETMFAPACYGYIILPTYPDLA AIQFDRSGTTHIGRFVINHSFILP GLIGVSVSCVFGWIFAAIKRDA AAGRAKENVIFHHFPQSVKAD IATNPFKRPGGAFIRITQTFRTV QTFRLSAYRLDFAGDRLRISTPR AKMRTAFKKDHLRQRRRCIRQ RAPPARHNLVGAVLPATVAG VNFTFSNVPLDSSVLSSLLTDFS TAVGSIVMLAVIMGLMLAFDM GGPVNKVAYAFMLICVAQGVY TVVAIAAVGICIPPLGMGLATLI GRKNFSAEERETGKAALVMGC VGVTEGAIPFAAADPLR/PSFGG KPLSMVLVIQMFMMLLTGALIIIL TKTNPASISKNEVFRSGMIAIVA VYGIWMAETMFAPACYGYI LPTYPDLAAIQFDRSGTTHIGR FVINHSFILPGLIGVSVSCVFGWI FAAIKRDAAGRAKENVIFHHF PFQSVKADIATNPFKRPGGAFIR ITQTFRTVQTFRLSAYRLDFAG DRLRISTPRAKMRTAFKKDHLR QRRRCIRQRAPPARHNLVGAV ALPATVAGVNFTFSNVPLDSSV LSSLLTDFSTAVGSIVMLAVIM GLMLAFDMGGPVNKVAYAFM LICVAQGVYTVVAIAAVGICIPP LGMGLATLIGRKNFSAEERETG
13717	44085	A	13797	3	2185	
13718	44086	A	13798	1	920	

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13719	44087	A	13799	251	479	TQRVDWRSRSSISPGDGLHAFP AFGKEGGKMLDRLRERRDVKT LQQSGSAAGAEFALAGAHPTH GTTA*IQQAINV
13720	44088	A	13800	1	939	
13721	44089	A	13801	1	386	
13722	44090	A	13802	3	524	
13723	44091	A	13803	1	548	
13724	44092	B	13804	67	1144	
13725	44093	A	13805	811	974	VSRRIKLDVTEEFARAGDNKRC ICQ*RHGLAERDIARLLVEIVVI WCDIGVQA
13726	44094	A	13806	1164	1262	
13727	44095	A	13807	2	894	
13728	44096	A	13808	1	1587	MVKEGTFREDLFYRLNVIHLIL PPLRDRREDISLLANHFLOKFSS ENQRDIIDIDPMAMSLTAWSW PGNIRELSNVIERAVVMNSGPII FSEDLPPQIRQPVNAGEVKTA PVGERNLKEEIKRVEKRIIMEVL EQQEGNRTRTALMLGISRRAL MYKLQEYDATGFFRDGMTIMV GGFMGIGTPSRLVEALLESQVR DLTLIANDTAFVDTGIGPLIVNG RVRKVIASHIGTNPETGRRMISG EMDVVLVPQGTLEQIRCGGAG LGGFLNPTGVGTVVEERQTSID TSTRKRPFELGRPSRNNDKGIRP VDQALDRKNIRE/ALHDSLKRLQ TDYLDLYQVHWPLRPFYCFGK LGYSWTD SAPAVSQDLTDAL AEYQRAGKIRYIGVSNETAFGV MRYLHLADKHDLPRIVTIQNPY SLLNRSFEVGLAEVSQYEGVEL LAYSCLGFGTLTGKYLNGAKP AGARNTLFSRFTSYSGEQTQKA VAAYVDIARRHGLDPAQMALA FVRRQPFVASTL/LGATTMDQL
13729	44097	A	13809	1	618	

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13730	44098	A	13810	80	952	RPGIVALNAILPLSRTRQSKPTR LKKRAIANCAPTWKKRFVALV YRTA*RFPSITLSVAVT*PASAK NKAIKMTQKIEQSQRQERVAA WNRRAECDLAAFQNSPKQTYQ AEKARDRKLKANLEEAIRRSGL QDGMTVSFHHAFRGDLTVN MVMDVIAKMGFKNLTASSSL SDCHAPLVEHIRQGVVTRIYTS GLRGPLAEEISRAYCADSHHGP FAMVNNMTDLTAQEPAWQTR DHLDDPVIGELRNRFGPDAFTV QATRTGVPVWIKREQLLEV DFLKKLPKPYVMLFDLHGMDE RLRTHREGLPAADFSVFYHLISI DRNRDIMLKVALAENDLHVPT FTKLFPNANWYERETWDLFGIT FDGHPNLRWIP
13731	44099	A	13811	92	735	RLLRPLPQPRSSVLPGLTTFHAS STSETRQSKPTRLKKRAIANCA PTWKKRFVALVYRTA*RFPSIT LSVAVT*PCVNIITIGCQVKTVT TIATAQIQRFTRFNHFSRFQYFR NSPKQTYQAEKARDRKLKANL EEAIRRSGLQDGMTVSFHHAFR GGDLTVNMVMDVIAKMGFKN LTASSSLSDCHAPLVEHIRQGV VTRIYTSGLRGPLAEEISRGLL AEPVQIHSHGGRVHLVQNGEL NIDVAFLGVPSCEFGNANGYT GKACCGSLGYAIVDADNAKQV VMLTEELLPYTDNPEA
13732	44100	A	13812	1	1113	
13733	44101	A	13813	5121	6228	LRRDSGRLRSCWHPRSP TSMGS LGQREDLQDEDRNSGADPGQR GRCSIHLEPGGQQPCLQRAVQG EGDPVLAKKEIQDQCHPHGQV QLLLVPAAEPVRAVPPRVQPVL PHHHHPAELSGIREE*GNQND EN*TISTTRTGSGLESSR*M/SILP LSRTRQSKPTRLKKRAIANCAP TWKKRFVALVYRTA*RFPSITL SVAVT*PYWSGAPGGPCRRPYC HFRHRGARGSGAPGDGGEAPP AAAFLLGGDVGFGL
13734	44102	A	13814	56	196	CRGDGGKLIQCQRRMGI*PCG* LRQRKAELFQHLPLC*FWRPEI GTVCSGSIDNGSDRLRR
13735	44103	B	13815	64	2373	
13736	44104	A	13816	3	403	
13737	44105	B	13817	55	1040	

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13738	44106	A	13818	587	1533	VLLTAKFFPSMYSPIKTAGGPA ST*VL*MIISIDAEKAFDKIHQPF MLKALNKSENKIPRNPTYNGCE GPLQGELQTTAQGNKRGYKQT QQHDMHMSTKNQYHENGHTA QGMKGITQPSAFIPTAESNSFQP QVKTLPSPIDAKQQLQRKIQKK QQEQKLQSPLPGESAACKSESA TSNGVTNLPNGNPSILSPQPIGIV VAAVPSPIPVQRTQRLVTSPSP MSSSDGKVLPLNVQSHQNCW WTRFNMSSLNVVKMTTISLTPS NSNTPLKHSASFISATGTTEESR SVPQIKNGSVVSLQSPGSRSSSA GGTSAVEVKVEPETSSDEHPVQ CQENSDEAKAPQTPSALLGQKS NTDGALQKPSNEGVIEIKATKE RRSSPATEQSWMENVFEEQREE GFRRSNHSQIREDSQTKGKEEK RLKELMELKTKVRELREECRSL RSRCDQLEERVSAMDDDEMNE KREGNFREKRIKRNEQSLQEIW DYVKRPNLRLIGVPESDGENGT KLENTLQDIIQENFPNLARQANI QIQEIQRTP
13739	44107	A	13819	590	817	
13740	44108	A	13820	107	410	KGRNIQLNGPSSRVSLWRSLYF LNLNTGLPC*IGEVLLDNILQSV FQLGSILPITFRYTNQT*IWSFHI VPYFLEALLISFYSSFKLPFSLH FIHFIFHR
13741	44109	B	13821	1	3735	
13742	44110	A	13822	922	1137	HFFLHFNFGESDNYVSWSFSSR GVSLWRSLYFLNLNVGLPC*IG EVLLDNILQSVFQLGSILHITFR YTNQT
13743	44111	B	13823	1	954	
13744	44112	A	13824	3	156	
13745	44113	A	13825	683	972	SHRLLRLLHSSRSSPGLVSSSISS FKHFSVLVILFTLMIVSFAVQKL FSLIRSHLSILALVAIAFGVLVM KSLPTPMSSMVLRS/SFF*GFYGF FRSYI
13746	44114	C	13826	1	895	
13747	44115	C	13827	372	1727	
13748	44116	A	13828	705	1072	LALLVELIPLPLCNGLLCLF*SL LV*SLFYQRLGLQPLPFFVFHLL GRSSSILLF*AYV*LFWHDFAA AGTGCSFPCLALPSGALVGQA WW*QKSLSICLSVKDFISPSLM KLSLAGYEILG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
13749	44117	A	13829	1	1136	
13750	44118	A	13830	547	675	
13751	44119	B	13831	144	1877	
13752	44120	A	13832	1	441	
13753	44121	A	13833	27	344	
13754	44122	A	13834	287	600	GPGSLQSSPLLSPWPWRASSPLL LRPSVRGWHLGEP*NCFPSPLA AS/EQAPKRSS*PQCNHR*RETA ARGLAYPPDRPLPSMLSCESPE TPAKAGPGRERGCEKC
13755	44123	A	13835	2	226	
13756	44124	A	13836	2	226	
13757	44125	B	13837	45	518	
13758	44126	B	13838	1	699	
13759	44127	A	13839	3	362	
13760	44128	A	13840	2	130	
13761	44129	A	13841	3	96	
13762	44130	A	13842	1	545	
13763	44131	A	13843	2	144	
13764	44132	A	13844	2	91	
13765	44133	A	13845	1	370	
13766	44134	C	13846	1	214	
13767	44135	A	13847	215	310	
13768	44136	A	13848	2	91	
13769	44137	A	13849	1	289	
13770	44138	A	13850	1	997	
13771	44139	A	13851	1	192	
13772	44140	A	13852	2	267	
13773	44141	A	13853	2	181	
13774	44142	A	13854	1	171	MESYAAIKNDEFMSFVGTWMK LETILSKLSQGQKTKHCMFSL TDVIARRRSWTSI
13775	44143	A	13855	92	244	KRRRRRGQIRKMKEEEGNRRT WMKLETIILSKL*QRQKTKHRM FLIIGN
13776	44144	A	13856	146	382	
13777	44145	B	13857	124	1215	
13778	44146	B	13858	1	628	
13779	44147	A	13859	377	484	
13780	44148	A	13860	2	220	WARTSCLKHQKQWQKPKLA NGI*LN*RASAQKKLPSEWTG TWMKLETIILSKLLQGQKTKHR MFSLIGN
13781	44149	A	13861	965	1150	GVDQRAVCSSRIW*SHLFLFHS VVVHLPWAGTWMKLETIILSK LSQGQKTRHRMFSLIGN
13782	44150	A	13862	254	571	YSYKLEIIIGKQPEIYRDP CYRP AV*SQTA VLAISEAPWA*DLPS QVSDTISWWTV C*AHWKSAVL GWE*PGFPGTWMKLETVSLSK LSQGQKTKHHMFSLIGN

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13783	44151	A	13863	62	214	
13784	44152	A	13864	274	435	
13785	44153	A	13865	1	294	ASTAGVSYYVAQAGLKLGLS LSKCRDYRCEPPCPE*MSLYKV MAMARKAMSL\YIYFFLDEFM YFAGTWMKLETIILSKLSQGQK TKHRMFSLVGGN
13786	44154	A	13866	663	1266	PPLTCQCSHLCVTLVGH/WIKLE TIILSKLSQGQKTKHRVFSLIGG AGALAKECMSLYPGCKITVFDI PEVVWTAKQHFSFQEEEQIDFQ EGDFFKDPLPEADLYILARVLH DWADGKCSHLLERIYHTCKPG GGILVIESLLDEDRRGPPLTQLY SLNMLVQTEGQERTPTHYHML LSSAGFRDFQFKKTGAIYDAIL
13787	44155	A	13867	1	681	
13788	44156	A	13868	1	247	
13789	44157	A	13869	2	178	
13790	44158	B	13870	1	2042	
13791	44159	A	13871	1	378	
13792	44160	A	13872	1	683	
13793	44161	A	13873	1	972	
13794	44162	A	13874	308	406	
13795	44163	C	13875	177	653	
13796	44164	A	13876	1	465	
13797	44165	A	13877	3	1175	FFSSQAAALLVVLGSSHTLQRA RKHSAPGLPDTCALLQPPAASA AAAPSMSPGPDVETPSAIQICRIM RPDDANVAGNVHGGTILKMIE EAGAIISTRHCNSQNGERCVA LARVERTDFLSPMCIGEVAVHS AEITYTSKHSVEVQVNVMS ENI LTGAKKLTNKATLWYVPLSLK NVDKVLEVPPVVYSRQE EEEE GRKRYEAQKLERMETKWRNG DIVQPVLNPEPNTVSYSQSSLIH LVGPSDCTLHGFVHGGVTM KLMDEVAGIVAARHCKTNIVTAS VDAINFHDKIRKGCVITISGRMT FT\SN\NSMRFKVLLDPAPV VDS FQKRYRGRQCLSST*VSLSQER QV/PLPVPQLVPETEDEK KRFE EGKGRYLQMK\AKR\QGHAE PQ
13798	44166	A	13878	121	361	SLFELENRSKFSVATAGLVPSR RLSINCIRRAFITSSNGFPLWFCL HQKGPVDCCVAVY*CGTEDGS WAPTHPGVGPSLP
13799	44167	A	13879	1	462	

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13800	44168	A	13880	3	287	PCSLSSDCCASNQRDSVGIGPSE PRVGYNILVIRFLSPSEKRSRIV GVTRFSSAWEPSQLAGILPISEP PSNRIFACWGKPAWTACCNSLR ARR
13801	44169	A	13881	1	1332	
13802	44170	A	13882	1	753	
13803	44171	A	13883	1	516	
13804	44172	A	13884	71	277	IYFNTQESFCPPRPLK/LCDGRG CHKGL*NAFKAFSPFSWPLALG SFLLMQISAACLNSFPENGLFFS TT
13805	44173	B	13885	1	1095	
13806	44174	A	13886	1	741	
13807	44175	A	13887	264	2880	WLLQKHKLHVSRLGL\PDTSW ILPSRPDAGGRFPRTPPCVLVV HKPSRHCREWTANTVLPKGAL AKWLLEPKADLQGWHLPADG QYTKPSISYNIKLYINCYNRTVT TAAQHQQVQRKHGASIFLAEN VAVREKDKEERKVTRAPTEQA WTAGSWIETAYREIKGVGQES VCITVMHLEELVYELAWIIMSA VVEAFDPVAPSSKCRNLNPDNDP YCCTPYTLHTSPPPPPSCCTPYT LHTGPPPQTPFCCTPYTLDTSPS PQTHSCCTPYTLHTVPTFHLPA AHPIHLHTIPPPQTQGGFVSED EYLEISDIKRDQSGEYECSALND VAAPDVRKVKITVNYPPYISKA KNTGVSVGQKGILSCEASAVP MAEFQWFKEETRLATGLDGMR IENKGRMSTLTFFNVSEKDYG YTCVATNKLGNNTNASITLYVD HIVGSKALLSKCKRTEITNYLS DHSAILLELRIKNLTQNHSTTW KLNNPLLNDYWVHNEMKAEIK MFFETNKNKDDTYQNLWDAFK AVCRGKFIALNAHKRKQERSKI DTLTSQLEKEKQEQTTHSKANR RQEITKIRAELEKETQKTLQKI NESRSWFFERINKIDRLRLARLIK KKREKNQIDAIKNDKGDITTY TEIQTIREYYKHLANKLENL EEMDKFLDTYTLPRNLNQEVEES QNRPTGSEIVAINSLPTKKSPG

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13808	44176	A	13888	1	629	AMAGSPPASLLPCNLISDCCAS NQRDSVGVGPSEPGVGYSLVV RRFLSPSEKRSIRVGVTRFSRCR PSPLSLTQKGNSLTSWASQVLT PAPEKQPDNKLPLPRGRSDPT EYFHGQEVDRDKSDEHVDHVSQ IHSFRDEVKRLGAEDSSNAETP TELHEFNTGGVYRPPNSTSVIQP LDQGVIRTFKPCYTKYSLEKIVS AVEENPDRT
13809	44177	A	13889	1	1452	
13810	44178	A	13890	167	309	
13811	44179	A	13891	3	386	SVGALQKQQGWHQRRCSLHF PSFLCVFSLAKSRRADHNQDPR ASRMAFSLTSSPLARSAASAVA AFGCGTSGNGRFSSVP*AYRQV FQRIAIAYVGPLMRDR*AHPVK TPDAIDCRIRQPAIPRLQ
13812	44180	B	13892	121	298	
13813	44181	A	13893	473	1826	
13814	44182	A	13894	1	270	
13815	44183	A	13895	3	3706	
13816	44184	A	13896	1	1464	
13817	44185	B	13897	591	729	
13818	44186	A	13898	1	1326	
13819	44187	A	13899	1	1152	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
13820	44188	A	13900	1	2524	MREEFAHRWRLARAGEKTPPDA LEKLTDPMLFAAAMVSAGKAD VCIAGNLSSTANVLRAGLRIIGL QPGCKTLSSIFLMLPQYSGPAL GFADCSVVPQPTAAQLADIALA SAETWRAITGEEPRVAMLSFSS NGSARHPCVANVQQATEIVRE RAPKLVVDGELQFDAAFVPEV AAQKAPASPLQGKANVMVFP LEAGNIGYKIAQRLGGYRAVGP LIQGLAAPMHDLSPCIAATDAG SAAAQRIGDLVSVHVIPRPHVD LEQVFPIGLKAYTATCNHPVSL RFTIKSSSDRIKLSNQTLOSKNL FIMRFYCFSLCLSLSAFYHCRGV IVNIQAVFWLQKGTEAADILTT CAQLWIMMYALLSVFSLLDVIL NLAQKFPAASQLPLKGIFQGIKL IGAILVGILMISLLIGQSPAILISG LGAMAAVLMVFKDPILGLVA VRNWDNTITTIPTWSLVSDSK NWSGMSASGGRIKRSISIDVTS IRFLDEDEMQRNLKAHLLKPYL TSRHQEINEWNRQQGSTESVLN LRRMTNIGTFRAYLNEYLRNHP RIRKDMTLMVRQLAPGDNGLP LEIYAFTNTVVWLEYESIQA DHIFAIVEEFGLRLHQSPGTGNDI RSLAGVTINKAPGDDEILKNTV DFVSFSYYASRCASAEMNANN SSAANVVKSLRNPYLQVSDWG WGIDPLGLRITMNMMDRYQK
13821	44189	A	13901	1	2370	
13822	44190	A	13902	1	282	
13823	44191	A	13903	1	714	
13824	44192	A	13904	3	506	
13825	44193	A	13905	459	551	
13826	44194	A	13906	401	492	
13827	44195	B	13907	479	702	
13828	44196	A	13908	120	256	

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13829	44197	A	13909	16	1249	SKSGAIEIARLAGRVHGVVVQI TSEIGPLTLLTANFAFSAS*STA WKATSMGDGEVLS*YSTSASAS AERQSTHQ*TGFAPLCR*PLPMI /VAQRADDVGFSFEVHGQVRV RPVAQHAQTDKVFALT VNLGR RVFAALGAELGGARSAVRPVP ECYAVRETLALLQKIFPIRCEN SVYRNRSRPCLQYQIGRCLGPC VEGLVSEEEYAQQVEYVRLFLS GKDDQVLTQLISRMETASQNLE FEEAARIRDQIQAVRRVTEKQF VSNTGDDLDVIGVAFDAGMAC VHVLFIHQGKVLGSRSYFPKVP GGTELSEVVETFGVQFYLGQSQ MRTLPGEILLDFNLSDKTLLAD SLSELAGRQINVQTKPRGDRAR YLKLARTYAATALTSNFRSIYR SPATDRACQRVETAGNER
13830	44198	A	13910	1	438	
13831	44199	A	13911	1	1200	
13832	44200	A	13912	1	300	
13833	44201	A	13913	1	431	
13834	44202	A	13914	2	1465	
13835	44203	A	13915	1	513	
13836	44204	A	13916	3	535	RDKILVFKDENFWMIRGYAVLP DYPKSIHTLGFPGRVKKIDAAV CDKTTTRKTYFFVGIWCWRFDE MTQTMÆKGFPQRVVKHFPGISI RVDAAFQYKGFFFFSRGSKQFE YDIKTKNITRIMRTNTWFQCKE PKNSSFGFDINKEKAHSGGIKIL YHKSLSLFIFGIVHLLKNTSIYQ
13837	44205	A	13917	1	876	
13838	44206	A	13918	23	414	
13839	44207	A	13919	2	425	QERGPHQVIQRKECLREYSPVV S*AKGTGVAVGQKGT LQCEAS AVSSAEFHWYKDDKRLIEGNK GVKVENRPFLSKLIFFNVSEHD YGNYS CVASNKLGH TNASIML FGPGAVSEVSNGTSRRAGCVW LLPLLVLRLLLKF
13840	44208	A	13920	1025	1270	
13841	44209	A	13921	370	701	
13842	44210	B	13922	1	660	

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13843	44211	A	13923	1	432	RFSRVDDFVLTMDDGPPRRRAR GDLTHSGLWRVCCIEGIYKGHC FRJNHFPEDNDYDHDSSSEYLLRI VRASSVFPILSTILLLLGGLCIGA GRIYSRKNNIVLSAGILFVAAGL SNIVGIIVYISSNTGDPSDKRDE DK*NHYN
13844	44212	A	13924	1	1093	
13845	44213	A	13925	1	1203	
13846	44214	A	13926	1	1353	
13847	44215	A	13927	2	445	
13848	44216	A	13928	1	227	
13849	44217	A	13929	1	840	
13850	44218	C	13930	120	356	
13851	44219	A	13931	40	342	
13852	44220	B	13932	403	473	
13853	44221	A	13933	70	2169	
13854	44222	A	13934	1428	1905	RCAATSGYGERVQRTV/PTHTV W*ASLSQSSAHRVVAINSIANK RSSMPPKSWATVALTSTKLKCR FMAKVRNKSFSVLHNV*MTISI/ SPWVILSSGVDEKLFPRAVRVA MTAGASGFLAGRAVWASVVG LPDNELMLRDVCAPKLQQLGDI VDEMMAKRR
13855	44223	A	13935	227	342	VHSWQRYSGR*RGY*PQNQSA TDQTRRWQSLKTAGAVA
13856	44224	A	13936	480	928	FFADLQQPVCADSYPLLQMK LAPHKS*NAVLWQRSATKSFSV L/AQGLNDHINMPWVILSSGVD EKLFPRAVRVAMTAGASGFLA GRAVWASVVGLPDNELMLRD VCAPKLQQLGDIVDEMMAKRR FIPLLRWVDLALTRWLITVSK
13857	44225	A	13937	564	1185	WLHASAALLRW*YQLPGQPHH RRCRSADGSHVPSLCAAVPDQR PLITVRRIGMQAMTTSTTGDRQ RSWQIAMDGSQKLQRM LDSV RWHLAHD SKFDLLALGVAGW MRYVGGVDEQGNPIESDPLLN RMAANRFVHITQLPVIYRAFRN SFTQVARLQLCHKRFQQRHTSV REQIVTVLSGIRDNHVHFVQTL TGDGVGNQRQLVQ
13858	44226	A	13938	228	424	HRFCPAARH/RSWSGLREMAVS ISMPRRIINSGRYCAICWYKRRS RCARNMLIFPVARSTPIGPS
13859	44227	B	13939	128	1670	
13860	44228	A	13940	2	2367	

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13861	44229	A	13941	1	921	ELPASPAPCARTPQPLGGRWEA ARRKERVLCFLFDVDGTLTPAR/ QGRTLKIGSSHRECHADTPEAE CGVCSSVTEVRAK WRSQTC*KP ECYASPLPP*KIDPEVA AFLQKL RSSYLPVGSQTWSHTLSSSCPLC DPEVIGRDTV PVSGSGSPGHAQ SPVFLGQTIQNHLPGGARFEF RA/CSGSLWLPALPHHRGT FIEF RNGNCVPSQGLAHSRSELPSA PSPLQKEQAALLALSAPPSRE* QSPPLPTGGMISFDVFPEGWDK QVRSSQCGEGLHLNIPPLPILCV QGGNDFEIFADPRTVGHs
13862	44230	A	13942	105	416	HSVLEVGPWWEVFGSWGQILH SLVSSHVRHWLLPSPSAMTES SLTFQQKPSRCQH HASKAYHS HQLLLVPTAGRLEDRSHH*IPC KHSPAPAWSLAAPVGN
13863	44231	A	13943	191	573	SSSGGYQQLMRVIGTRDTAV NKASNVPSFGA*I/PSGRGQQA LIALTRALTLAKELHVN IYADC KYAFHILHQHDVIWAERGFLT V QGSSSIINASLIKTLKATLLPKE AGVIHYKGHQKASAPIA
13864	44232	A	13944	1	1065	
13865	44233	A	13945	321	537	
13866	44234	A	13946	346	1260	GGPARAEFSRHLGCKGHHPLPK DVASEVPAGSSTSVSSLIRTNGC PGLGSWEPP*FFSENKRLSTLMS FTLRDSKMFSPQSGFLGCSAG EHSALRDPTASGLPGTASGVRP GR/RQRVGSDIEASTQGESKPCI LSI*TL PNA*LKTKLTLPLEIAAC TNPHSFSITARIGPAHLAAPRPV TPAGRGGARAPGR*CAAARPPP ASQ*VSGSPAPGGGPSYAPAAR TS*PSSLAPGAKRLRFSRVATFC CSFLAWSSSSNKAFCT*EHMSL LSSWISQSLEKVASCCPCEQFDS WKRL ENILLFS
13867	44235	B	13947	1	459	

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13868	44236	A	13948	63	1263	VEAAKKAHHAACKEEKLAI SEANSKADPSLRPQAHTYALSPL FLTAMPSV*QGEHVIYTRVRHS DQVSESSGKPLSLPLLEPGIWAF EAAQVPPRWDQVRSLEPTTEW EAPGLKKRRVSQGLNGNEPLSC AWIFL*TKEKYEKSLKELDQGT PQYMENMEQVFEQCQQFEEKR LGWDKG*LAPAF*KSHVSL*FS YKAIYHDLEQSIRAADAVE/DR RGFRK**TFGFSPSAPVA*EWS ADLNRTLRSREKKKATDCQDP HGPLQSWDPLKALSLHSTLNVP SNPAQSAQSQSSYNPRGPHTLC RPVLRALWPPLSCSVSSYEKTQ SYPTDWSDDSNPNPFSSTDANG DSNPFDDDATSGTEVLCSPPSV SYLSWRRLLPLCLAGDELTKME DEDEQGWCK
13869	44237	A	13949	2	485	AAAFGTRLRGRGCGVTGSG GGRRRVPAARRPRSPQLPPHQ/P PRRPSRRTPGCGSRGA\PSRGRR LVPPPPPEPPRAAQQRARH\HRTS RPAARQPPRRPPAQRSCPRRV RPTPAWSPPGRRGPRRSRRRRR RGGRARARRPRRGQVPRPQS ATGAGHAR
13870	44238	A	13950	1	207	
13871	44239	B	13951	1	5297	
13872	44240	B	13952	1206	1360	
13873	44241	A	13953	46	369	NEGKNAKGSQRERSGYPQREA HQTNSGSLGRNPTSQKRVGANI QHS*RKEFSTQHFISSQTKLHK* RRNKILYRQANAERFCHHQEGS TKHGKEQPVPAAPAAKSCQNVK
13874	44242	A	13954	476	868	KYDCCISSTFCRALVHFSRTTFQ VNSPLSPNISAFGYMPLKYSIYF LHHLRPNIL*AASYFLKYKGT LKLALRGCLS*STRCWCKIHICI *ND/ECLQLGPFWFENEFCLPS TSQFVEFVLDILVLQNEP

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13875	44243	A	13955	1770	3003	PANIIMTGSINSHITILTINLVNGI LNAPI*RHRPAIA/S/WLKSQDPS VVCIQETHLTCRDTHRLEIKG WRNIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYIMAK GSIQEEELTILNIYAPNTGAPRFI KQVLSDLQRDLDAHTIIMGDFN TPLSTLDRSTRQKVNKDIQELD SALHQADLIDIYRTLHPKSTEYT FFSAPHHTYSKTDHIVGSKALL SKCKRTETITNCLSDHSAIKLEL RIKKLTQNHSA TWKLN SLLND YV VHNKMKAEIKMFFETNENK DTAYQNLWDTFKAVCRGKFIA LNAHKRKQERSKIDILTSQKE LKKQEQTNSKATRRQEITKIRA ELKEIETQKTLQKKQPNKDPAM EKNKTDRLARLIKKKREKN EFSAHILYKFSKQNGS
13876	44244	A	13956	105	392	RSRKPRGNPKSHPEDTDPTKAP RKRQISSRGHRSHR*EPGPQSA PGFREQRRRGQMG*IWYLTPT PGGQRPSSAASPRGFPTNNSR LPAEPE
13877	44245	A	13957	55	403	SEGMSGKASEKQEAFCPRHLT RAVDGPS*SGLLGSRLPPSCSPG KEAPGGSELYLCLMRGLQTL*A RSGTGLR/PNPAEIR*EPGPQSA APGFREQRRRGQMG*IWYLTPT PPGGQ
13878	44246	A	13958	217	444	RSRKPRGNPKSHPEDTDPTKAP RKRQISSRGHQSHR*EPGPQSA APGFREQRRRGQMG*I*TPCRP ALPKSKPRPL
13879	44247	A	13959	309	670	PCPRASSQGLKATHGQR*SSEP PGASFPGLQDGGRRPRRPD*D GPSTGLVRCLGHANVGDPCLK VFVFFKNLSPTYLRASAEQTL LLLPHLHGLCLHQLHLGFTAA WAQLTFWEASQ
13880	44248	C	13960	392	760	

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13881	44249	A	13961	24	915	HAGRHARGSLFPGARPSETRAH CVRTARPNCKEEDTPMVRGKN SGGEHCTWGPSLAAGG*GIGDP GGLPGT\PHPLQLLLHGFAGP HMASLCCGVSSPAGVRQWPA* GSGNHQVKS WLGLPKNV S*AP SML*NPKMQRLMKAQPHGRCE VRRGRVCSALGP/IGMSGKASE KQEA*DEGHPHLHAPGT*QDQ VDGPS*SGLLGSRLPPSCSPGKE APGGSELYLCLMRGLQTL*ARS GTGLRANPAEIR*EPGPQSAAP GFREQRRRGQMG*IWYLTPTPP GGQRPSSAASPRGFPLV
13882	44250	A	13962	397	612	RPQHHTFCCDGRVMMARQKGI FYLTFLILGTCTLFFAFE/CSFG *VELPDYGYFGSRGRT CFLGSL GLVLG
13883	44251	A	13963	125	1298	FQSWAQLFLLSCNRKTHFGTR IP\MSVMVVRKKVTRKWEKLP GRNTFCCDGRGMMARQKGIF\ YLTFLILGTCTLFFAFE/CGRYL AVQLSPAIPVFAAMLFLFSMAT L\LRTSFSDPGVIPRALPDEAAFI EMEIEATNGAVPQGQRPPPRIK NFQINNQIVKLKYWYTCKIFRA SRASHCSICDNCVERFDHHCWP VGNCVGKRNYRYFYLFILSLSL LTIYVFAFNIVYVALKSLKIGFL ETLKETPGTVLEVLCFFTLWSV VGLTGFHTFLVALNQTTNEDIK GSWTGKNRVQNPYSHGNIVKN CCEVLCGPLPPSVLDRRGILPLE ESGSRPPSTQETSSSLLPQSPAPT EHLNSNEMPEDSSTPEEMPPPEP PEPPQEAEEAEK
13884	44252	A	13964	44	647	DYSAQH GKASQKHVARLISSGT FQGATVSRPQLSTSSSSFCSSSS SLSSSSSLSSLLSCSSES VFLS LSFFFCSEASFLPFC SRLYASRA SFNGVTNRWNSISSMAESTSLA FSVFRFPFIKLLAQDVAYSTKT LAAREIGAPGLLDVDTVREL R GDRG*AKLPFQHLLPSCPFVRPP RAAHRLLDDPGDHGIGQV
13885	44253	B	13965	158	1075	

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13886	44254	A	13966	125	1297	FQSWAQPLFLLSCNRKTHFGTR IPIIMSVMVVRKKVTRKWEKLP GRNTFCCDGRGMMARQKGIF YLTFLILGTCTLFFAFE/CGRYL AVQLSPAIPVFAAMLFLFSMAT L\LRTSFSDPGVIPRALPDEAAFI EMEIEATNGAVPQGQRPPRIK NFQINNQIVKLKYWYTCKIFRA SRASHCSICDNCVERFDHHCPW VGNCVGKRNRYFYLFILSLSL LTIYVFAFNIVYVALKSLKIGFL ETLKETPGTVLEVLIFFTLWSV VGLTGFHTFLVALNQTTNEDIK GSWTGKNRVQNPYSHGNIVKN CCEVLCGPLPPSVLDRRGILPLE ESGSRPPSTQETSSSLLPQSPAPT EHLNSNEMPEDSSTPEEMPPEP PEPPQEAEEAEK
13887	44255	A	13967	247	850	DYSAQHKGASQKHVARLISSGT FQGATVSRPFQLSTSSSSFCSSSS SLSSSSSLSSSLLSCSSESVFLS LSFFFCSEASFLPFC SRLYASRA SFNGVTNRWNSISSMAESTSLA FSVFRFPFIKLLAQDVAYSTKT LAAREIGAPGLLDVDTVREL GDRG*AKLPFQHLLPSCPFVRPP RAAHRLDDPGDHGIGQV
13888	44256	B	13968	298	380	
13889	44257	A	13969	48	252	QRAGSPHSPRSLAPPLPELPLW RHLRSPSAHRC TVGAPFWDGQ G/LEPAPSAALAAFPRSRARDLQ LA
13890	44258	B	13970	1	447	
13891	44259	A	13971	236	559	MWLEPMQMGLHMMMEKMAA RTSAILD*GTLK*FHFTLTSLK ALSSHTPIFPGTGELQLPVSPSV CLDQGMQLKPSTSSHLLKTVKP RMKRQSLHMKQSFEPKIYL
13892	44260	A	13972	1	645	MKPQTLTVSVTAFKVAHLEFVP SDVQMCSEFLPSGGFVVS LASG VKLQTF AVSFTA HKSSVDPKNS EAQLASPSGFCTRAADGAACQS LPCTCTPQPLGGRWDWALWS RGW/LLVEEAWAAQEPTEELRE RALALASPERGSHSAAVGQRAP QVPPKWEPRQRRRRERARAVR TASTLSPLNPPSKQDTLTAVGN LADHSSYFLDRGEEGALQL
13893	44261	A	13973	28	322	
13894	44262	A	13974	1760	4426	
13895	44263	B	13975	942	3414	

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13896	44264	A	13976	1	274	
13897	44265	A	13977	545	1150	RISGPGAVLLPVMPALWRLRHR MFSLTKK*HLP AHRSLAEGYLL YQPQLDTLKARLTQKYQELQV LFEAYQIKKTKLDRQSSASLET LLALLQAEGAKIEEDTENMAEK FLDGELPLDSFIDVYQSKRKLA HMRRVKIEKLQEMVLKGQRL/S TRPWPRCPPGCPNWHLPFPPT LPQSQWASCRCTSAHPPPTTPG AAGRL
13898	44266	B	13978	213	611	
13899	44267	A	13979	1	639	MEAVTVVPVGTEEGMGEEEQD SGTTTGCLPSVEKMLATNPGK TPISLLQKYGTRIGK\TPVYYLL KAEG\HQPNTFWVVGNTSCT AQQPRKKVVKHKA AEVALRHL KVESMLEPAPEDSSSFPLDSSL PEDFPVFTAAAAATPVSSVFLT RSTPMEKQPPLP\QQSECIPVG ALQKLVVQKGWWLPEHTVT*E SRPDQHEELT*RVERFT
13900	44268	A	13980	361	894	AFFPMSTAGVCNVEGEPETP WSLPLSQVPFSPNA/CPQGTLGR S*AGVAGAPGPGVPGRSPAA\GI PEPAARPGRPALSRLPGLGGAG ARSGAA*G*GSRPGG/PLPAADP VQSWG*EAPSH*PGT\ SADSP PSGVSGATGDCLWGSRAELF GFATTSSAAPPGLPTFFIPVSP
13901	44269	B	13981	1	3842	
13902	44270	A	13982	3	407	DAWAAARPGRSCALPPPGA/PE EPGHVPGAA*G*GSRPGGRFQL PDPVQSWG*EAPSH*PRNFPQ TRRHLGVKQHGCSQSPHGSRA SQAHPGISGLF/GPHHPGPPLFIH GPRCCCAQATASNHLFACGTSS DP
13903	44271	C	13983	127	297	
13904	44272	A	13984	3	1920	

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13905	44273	A	13985	3	2271	GQGRRTAGGGGGGGAGVAG AGAMEAERGPERRPAERSSPGQ TPEEGAQALAEFAALHVWSGE GIGVGSPAHTPADGNSGPQVFD AGEVFGIMQVEEVEEEDEAAR EVRKQQPNPLAPPTSLCPMPTR QPHIVACARSIFLIDHAWTCRV EHARQQLQQVPGLLHRMANL MGIEFHGELPIWVPEGSSGGW MGEREVPYVLCLQTAEKMPV WYIMDEFGSRIQHADVPSFATA VPLEEGPQPSVSPPLMGTH/DL GTEEVTRDFAYGETDPLIRKCM LPLSSSHRGMETPCVHTSRASL PLQACELPSWSLLLINEPPRPAF PSLP*PHLYFRCVSF*AIPGLVLE SRLDTWEPGSPSSGSPHRVYTD VQQVASSLTHPALPVRASRHC PPLELAHLPPPCRKLSQERPGVL LNQFPCENLLTVKDCLASIARR AGGPEGPPWWVLGWHHLGTQ APGAPQTALLPRGEDNHWICK PWNLGLCVLGS PRGLCPGHQR ACTCVLQVVSKYIESPVLFLRE DVGKVKFDIRYIVGGTSLAGTR PLKNPYVSAHLSSRAFAQGRRG RGGPTWSGWLLARDPARV*DL LSSLVHSVERCPMQWALSEWQ LHHLSTWSSGLCGLAG**VFQM HRTPTPP**QAACSRPSGGLYR A*WALCLLPGAADPLLRCSEQ AS*LRLPGPQAEIFRAFTL FQV
13906	44274	A	13986	1	600	MEEQRVQFTLWLHFS PHGICQF ESGRQEAKKLKSGSQPLKTGEI KTGIQKYRREALLQH YLGPASL AGRSKALTGTAERSCSSGSDSSI FTLCVNYNDSRAIMKTLAAIGT GFDCASKAEIQLVQILGMPPER FMYANSCKQMSQIKYTANNGV QMMIFGNEVKLMSVARTHSKQ P/CHISVKSGAMLKASRLLE*A KEL
13907	44275	B	13987	1	2040	
13908	44276	A	13988	205	438	LYFLETGVFCVQVPAQQC*CSV PGSCRRPLEEAGWRGLGLSGRL AGTGLPSGSRGNRTERGERGKL VRGRRGVTRWLS

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13909	44277	A	13989	284	632	KTGVFCVPGPRPTVLM*CSFVG GKKNQYCLTGDAGCLQEKHSL GPAGV/HLEEAGWRGLGLSGRL AGTGLPSGSRGNRTERGERGKL VRGRRGVTRWLSHPQVQRQAD AGTCSPFEP
13910	44278	A	13990	594	1003	VRKGHHA VRGLCGRAQFRCIS GDPGKRPLG/LPGGNAPKSGSL ARRPQPVRI PGSRPQ/RGSVSHL GPAGVH*R/RAGWRGLGLSGRL AGTGLPSGSRGNRTERGERGKL VRGRRGVTRWLSHPQVQRQAD AGTCSPFEP
13911	44279	A	13991	1	1500	VRVAHIPIAAAEIAAIPDRGGHL SVGKRKLTFWFFYGVLPRFDV AIEFSPEEWECLDSAQQHLHRD AMLENYGNLVSLAAGDQSLPG DAAASAVCRQLSPSACGAILGL PPVNGVAPVRLRGEIVTYTWSQ LTGLALALSKDGADGLRRLTRP TRRAPALLLAPQTAAERWRG KCDPRHGGGCALALQGWTLYP RESPSRESKELGGLWSFRADLD SRRQGFEEQWYPRPLRELGRG GRRPEARRWEGGSPGPCRLLPL SAPELAPYRKLVNGLRGAGL GDGETGGTGEGRGGRRRKRCC RTLSRDEGFNDICQDWLQRQF VGWVLYEQEVTLPQWTQHLR TRVVLRIASAHSYATVVSAAARS RQGRGIGGLIYTLGMPFFLSGW QVPEPHAAGYVRECLIAGPLLM P/TTCCPLLISPVSAVGEWGRHA RA*GADSSSLVQNTDFFFNIA GLQR\SVLLYTTLTTYIDDITITT GVEHDSAEIPFPEYLRVNTGN
13912	44280	A	13992	2	307	
13913	44281	A	13993	220	427	MSTLPFPSLQMFRRPPYGSPSTC RSQDNRSYSRVTEELQERRRW NSGDAN*DQSPEARRRQRPRHIE EAA

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13914	44282	A	13994	1	2832	MGKYYTQGDKVLMLPLAIQVH HAVCDGFHVGRMLNELQQYC DEWQGGAYPKGYFVQNTDFDF FNYAGLQRSVLLYTTPTTYIDDI TITTGVEHDSAAAPMVDSLIAR VGVMARGNAITLPVCGRDVKF TLEVLRGDSVEKTSRVWSGNE RDQELLTEDALDDLIPSFLTGTQ QTPAFGRRVSGVIEIADGSRRR KAAALTESDYRVLVGELDDEQ MAALSRLGNDYRPTSA YERGQ RYASRLQNEFAGNISALADA
13915	44283	A	13995	1	2934	MITFDFMSHIQVTLMQEVSFHG LGQLRPCGFAGYSPPPGCFHRL ASSVCSFSRCTVQAAVDLPFWG LEGTSPLLAASLGSAVGTLCG GSDPTFPSWTALADVLHEEGHT PASNFCLRNLAGESQSWRKE GLGTPRPTASSTEELQTLNEDSR LMTSPHNLEETRDCDEL PKKS LGWKEIRVYGQNKTLGFWLQA QLLICDGGNLRMFLLPYGSPS TCRSQDNRGYGGVTEELMERK RWNSTDGFHIQGVLE
13916	44284	A	13996	68	425	SHILPGAPGAPAWWTRWPSTLP EPFPRGRGSPAGTSPISRPGLVQ SS*ASRGSDSRLPV/GPASCQAS GPGPDSRRPPCTPA\GPHHGSL PSAGRVGASAAAAGPPSPAVPL PPAERPAP
13917	44285	A	13997	324	723	TAFSLNFQGGVEGEVWAGTRA ARGACAGERGLGGSRTSGW/P GTAGPGQAGHGTCSLPCPSLPP AMGSCVSEPPRQAPPPAPWRLV PSTAQGLRSVGTQCGTGGSSAC GPC\GDPGF*THQSAPCQNGPIS SL
13918	44286	A	14000	39	383	

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13919	44287	A	14001	181	1446	EDLLQEAQALAEVTAQGKGLG QVRSLDLSLEACAGSPPLQVLD LQDREPRSLTSLPSSAANRGKL EKAQSNPCGHRRHQAAGLKLP LFSAPQPGQPTAPRFRATR KPGTAQSHAPLWSPAMSFFPEL YFNVDNNGYLEGLVRGLK/ALGE LSQADYLNLVQCETLEDLKLHL QSTDYGNFLANEASPLTVSVVID DRLKEKMWVEFRPHEGTPMPY EPTSPSFP*TSITLQFT*FDNVI/L WLIHRARLHQRSIAELVPQVAH PLG\SFEQMEAVNIAQTPAELY NAILVDTPLAAFFQDCISEQDLD EMNIEIIRNTLYKAYLESFYKFC TLLGGTTADAMCPI\LEFEA\NR RAFINT\INFFG\TKTVPKKDRCP AFFPH/CGAGFFPEGPAAMGFG LNNLLTGAKKRGPNFPEVQL AFLRGDG
13920	44288	A	14002	1	1182	
13921	44289	A	14003	26	342	ARFLAGP*LPSRRTGLRDLQPA MPEPP\PTPWAPVRPEPPRRAPP PAPRRPVPSTGKEQTTQGLRSA GAGHRDWQAAPPAAPVRDPLG EASWAPESGGDVESLYV
13922	44290	A	14004	66	463	
13923	44291	A	14005	3	1446	
13924	44292	A	14006	221	852	NSFLMVGFPPFFSL/CAAFDTKT GLRVAVKKLSRPFLRPDGYYTE FNIYLLFNFIYILTSSAV*VVLSH SVVIECLLSIRHCSRYFRKSSD KNFLRGSRLLCNFSLSRYLVTH LMGADLNNIV*RYR*YK**FFK MNSPFLPLVGGELIMHHKVDP VCFVFFSLPVSKS*QFVCSSAL *ILDGFLARHTDDEMTAKGQPE CFVRWACAS
13925	44293	A	14007	55	784	RHIQDPASQRLTWNKSPKSVLV IKKMRDASLLQPFKELCTHLM ARGAGGGHDARSLTAPVSRE PPCRRVGSAGGMSRLALCFQEN MIVYVEKKVLEDPAIASDESFG AVKKKFCTFREDYDDISNQIDFI ICLGDDGTLTYASSLF/QGNAA VVLRSRLKVRVVKELRGKKT VHNLGEGKSQAAGLDMDDVG KQAMQYQVLNEVVIDRGPSSY LSNVDVYLDGHLITTVQGDGVI VSTPTG

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13926	44294	A	14008	155	1592	PESRHQCFSDRSANFLTMEMEQ EKMTMNKELSPDAAAYCCSAC H\GDETWSYNHPIRGRAKSRL SASPALGSTKEIRRTSLHGPCP VTTFGPKACVLQNPQTIMHIQD PASQRLHVEQRPPRTVLVIKKM RDASLLQPFKELCTHLMEEENMI VYVEKKVLEDPAIASDE\SFGA VKKKFCTFREDYDDISNQIDFII CLGVDGTLTYASSLFPGQPSPP VMAFHLGSLGL\TPISFENFQS QVTQVIEGNASCCSSGSRLKGQ GW*RSLRGKKTAVHNGLGEK G\SQACRPGTMDVGKA/QAMQ VPRS*NEV\VIDRGPSSYLSNVD VYLDGHLITTVOGDGKARSTV LGP*ASLGRE*RLRLSLSGVIVS TPTGSTAYAAAAGASMIHPNVP AIMITPISRSVLPTAGGPHLSLL DPQIMLSPEARNAAGGPFWKP WLRLLSRPSISITTSCYPLPSIC VRDPVSDWFESLAQCLHWN
13927	44295	A	14009	327	466	
13928	44296	A	14010	2	196	
13929	44297	A	14011	923	1776	WRKCGCETAGSASATRAAAATE KMEAPRNKMCRDQENSAWRN AVPGP*E*RQPEEFRTTSILAEP TVLSRRKCRPSEKRGSA TEKFG ATSAVTENPPLGAAGERANKTL GAATVTPTLGPRPRMEKGGTR CPSTL*PSVQERQPESPSGNHPE TQKIEFAGRRVTFQHRWATTLR TRISGTGASPRDRSAFFGFPWC G/AAQPSDEESTPATQEEAQAQ AGVAAAASSEEPGHCAPRPPHA PRSALFEDWSREPERSDDGDL ECRRPATEPWRPPGSAWRLPCA A
13930	44298	A	14012	568	1223	SARGLLPGSGPLSHAGPQLQVE WFGCLPPPDSTLELVCGTVAI SRVRMSAVCVLRTWS\RNAG\Q LI\CFTVFQPCSNVHVL/KGPNY VCFFG\YPSFKYSHPHNFKTI NAVCGQLVQFRFPDTEEGIRK VTV/KCYVKEGDTV SQFDNIGK VQSDKASVTIASPYDGV\RK*\nHSLDDIAYVGKPLVNIETEALK GTVNLFYQIDYCPPFVIGSQLK

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13931	44299	A	14013	5	296	LFSRVPSKGPPRYHHTSSRG*TR AD*LISS\GNS*AH CIPSGLQGM LNLLPTPRAPVRPEPPRRAPPPA PRRPVPFDHPRACGTGRQLHLQ PRCGIH
13932	44300	A	14014	1	376	MQAVLLTVLQKHNSVVIYWY MKYIYYEGLVIMDDYDYVIMD YMTMETEKSHDLQAGGPGKPV VQFQFKPKILQASRNGVKSWS KSKGLRTRCANVQGGQENREGP AKHSPFLCLFVLFGSSTGRMIPN HTGDTSKVIAGTEERGVPKKVT LKFDACAAIDRPWAHQDLCTY HFKGSNDEHDSRLHTNAG*L*L C/RLWIT*LWRLRNPICRLEA QESQWYSFSSSPKCKPVEAMA LSPGPSPKA*EPGVLMKGRKI GRAQLSIHLSSAFLFFSAPQQVE
13933	44301	A	14015	1638	2289	VEKKKKPMSAPALRLPDLTKLF TLYVSETKKMAVRVLTQTGVP WPRPVAL\LSKQLDEVSKRWPP CPKSLVAIALLAQEADKLTLRQ NLNIKSPCAVVILINTKGHH*LM NARLARYQSLLCEHPRITLGSL QHLNPATFLPVSESPVKHNCVE VLDSVYSYVGNHRDHPLNISR LGAVTWMGSSFHQPLQSDTLK KTTSPGSSHTRKLTGPRTAEA
13934	44302	A	14016	1	675	MAPPLRPLARLPPGMLLRALL LLLLLSPLPGLREGIGELITPIGT SLPDLDPARRRWEGGIGRVGSE VADLCPGKEGGKVPEAEKEGV WCFSELSFVKEPQDVTVTRKDP VVLDCQAHGEVPIKVTWLKNG AKMSENKRIEVLNGLYISEV EGRRGEQSDEGFYQCLAMNKF *AILNQKAHLALSRIGST*RRRP DRP*EDEAFVMTTHCFQDLLTS
13935	44303	C	14017	18	329	
13936	44304	A	14018	391	895	WASSDTPTGFTQRWRPDWAGG GGGEERGDTGVVWEGEKVY RFRRVTGGSSFPSPAVLVRAPN TGMPKLTYYQT*GPLGERGKEP VPPN\PTLPQTFGGLLNASVVRK TEIPSPSPPPVCYLASAERQ/PA GGSPQAKWRRRAASSPPPLPPVH LPPPPPPPRPPPPPP
13937	44305	B	14019	1	1110	

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13938	44306	A	14020	282	710	YPEPQGWRVAHTVQYPIHIQPL KPGPRGR*SIMDIQVPPKEGGV LILKN\SSRLLNSWTQGCLQISA FSPTSSTLPGTPWSNVGPYKIAP ITSFGEAPFIRVIWKQLPSWISIIQ V/SHKQ*QIHRSDIGWSPGQEC GPKGCFV
13939	44307	A	14021	1	1416	MIILIDAEKAFDKIQQPFMLKTL SKLGTGDGTYLKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNIGLEDLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSGY KINVQKSQAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPR DIDQW/NRTEPSEIMPHTYNYLI FDKPEKNKQWGKDSLFHKWC WENWLA VCRKLKLDPFLTPYT KINSRWIKDLNIRPKTIKLEEN LGITIQDIGVGKDFMSKAPKAM ATKAKIDKWDLIKLSFCTAKE TTIRVNRQPTTWEKIFATYSSD KGLISGIYNELKQIYKKKTNNPI KKWAKDMNRHFSKEDIHAAK KHMKKCSSSLAIREMDIKTTMR YHLTPVRMAIIKKSGNNRCWR GCGEIGTL
13940	44308	A	14022	1	3450	
13941	44309	B	14023	1	3171	

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13942	44310	A	14024	1	2433	MRTKTQHTRISGTHSKPVCRGK FIALNAHKRKQEKSKIDTLTSQ LKELEKQEQTHSKASRRQEITKJ RAELKEIDTQKTLQKINESRSW FFERINKIDRPLARLIKKKREKN QTDTIKNCKGDITTDPTIEIQT REYYKHL YANKLENLEEMDKF LNTYTL PRLNQEEVESLNR PITG AEIVAISSLP TKESRTGWIHSRI LPEVQGGTEKEGILPNSFYEASII LIPKGRDATKKENFRPISLMNI DAKILNKILAKRIQQHIKKLIHH DQVGFI PGMQGWFNIRKSINVI QHINRTKDKNHMIISIDAEKAF DKIQQRFLKTLNKLIGDGYF KIIRAIYDKPTANIILNGQKLEAF PLKTGTRQGCPLSPLLFNIVLEV LARAIRQEKEIKGIQLGKEEVKL SLFADDMIVYLENPIVSAQNLL KLISNFSKVSGYKINVQKSQAF LYTNNTQTESQIMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLKEIKDDTNKWKNI PCSWVG RINIVKMAILPKNWKKTTLKFI WNQKRAHITSILSQKNKAGGI TLPDFKLYYKATVTKTAWYW YQNRDIDQWNRTEPSEIMLHTY NYLIFDKPEKNKQWGKDSL FN KWCWENWLAICRKLKLDPFLT PYTKINSK WIKDLNVRPKTIKTL EENLGITI QDIGMGKDFMSKTP KAMATKAKIDKWDLIKLSFC
13943	44311	A	14025	1	1023	MGAIDKPTANIILNGQKLEAF PLKTGIRQGCPLSLLFNIVLEV LARAIRQEKEIKVIQVGKEEVK LSLFADDMIVYLEDPIISAPNLL KLISNFSKVSGYKINVQKSQAF LYTNNRQTESQIMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLKEIKEDTNKWKNI PCSWVG RINIVKMAILP/KAICRKLKLDPF LTPYTKINSR WIKDLNVRPKTIK TLEENLGNTI QDIGMDKDFTSK TPKAMATKAKIDKWDIIKLSF CTAKETTIRVNRQPTWEKIFAI YSSDKGLISRIYNELKQIYKKKS NNPIKKWAKDM/NRHFSKEDIY AAKRHM
13944	44312	B	14026	1	2206	
13945	44313	A	14027	1	1689	

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13946	44314	A	14028	1	2523	MKQFLLYLDESNALGKKFIIQDI DDTHVFVIAELVNVLQERCHTR LGYTEFLVAWRVTFGLCVEAV TLHLKYQILIRGLLEMMSFSDA DILKQLPVTVPGLFPASLSPSSL LGNSPPSWLRHNSESKVSAVSS PSATKTLSTGIGKLDPGHKEMA EESELLKNKMQAPLSRCPESQ KCQHQLRLHHWKPSVRHQVKR RSPAVLRSAMPADCPAVLEAT TATHPEKGTALSKHLPSSDSMS LKVDVEALENSPGATYIWKGG KVTRDSQPKEQGKGLKKKKK GKLPKNYDPKLTDPERWLPM QECIFYQGRKKGKKKDQMGK GTQGATAGASSELDARKTVSSP PTSPRPGSAATLSASTSNIIIPRH QRPAGAPATKKKQKQKKKKG GKGFPVLREITVVKVDTLVVFQ ILEERLSVFHIQYDTSYPFSTVDI EDHECAVWLLLRKSKSDDKTT RLEAVREMSETHHWHDAEKAF DKIQPFMLKTLNKFVGDGT LKIIRAIYDKPTANIILNGQKLE AFPLKTGTRQGCPLSPLLNTV LEVLARAIRQEKEIKGIQLGKEE VKLSLFAGDIIVYIENSIVSAPKL LKLISNFSKVSEYKINVQKSQAF LYTNNRHTESQIMSKLPFTIATK RIKYLGIQLTRDVKDLFKENYK PLLNEIKEDTNEWKNIPCSWVG RINIMKMAILPKVIYRFNAISIKL
13947	44315	A	14029	1	2868	
13948	44316	A	14030	1	3099	MGELITPLSTLDRSTRQKVNKD TQELNSALHQGDLDIYRTLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITNYLSHSA IKLELRIKNLTQNRSTTWKLNN LLLNDYWIHNEMKAEIKMFFET NENKDTTYQNLWDAFKAVCR GKFIALNAHKKRQERSKIDTLT SQLKELEKQEQTHSKASRRQEI TKIRAELEKETQKTLQKINESR SWFFERJNKIDRPLARLIKKKRE KNQIDTIKNDK
13949	44317	A	14031	2	3419	

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13950	44318	A	14032	1	2685	MGDFNTPLSTLDRSTRQKVNK DTQELNSAPHQADLIDIYRTLH PKSTEYTFPSAPHHTYSKTDHIL GSKALLSECKRTEIITNYLSDDS AIKLELRKINLTQNRSTTWKLN NLLDDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFVALNAHKRKQGRSKIDT LTSQLELEKQEQTTHSKASRRQ EITKIRAELEKETQKTQKINES RSWFFERINKIDRQLARLIKRR EKNLIDAIKNDKGDITDPTIEQ TTIREYYKHLIYANKLENLEEM DKFLDTYTLPRLNQEEVESLNR PITGSEIVAIINSLTTKKSPGPDG FTAIFYQRAIRQEKEIKGIQLGK EEVKLSLFADDMIVYLENPIVS AQKLISNFSKVSQYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDTNKWKNIPCSW VGRINIVKMAILPKVIYRFNAIPI KLPMTFFTELKKTTLNFIWNQK RAHIAKS/VLSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN RDTDQWNRTEPSEIMPRIYNLY IFDKPEKNKQWGKDSLFWKWC WKNWLAICRKLKLDPLTPYT KINSRWIKDLNIRPKTIKLEEN LGITIQDIGMGKDFMSKTPKAM ATKAKIDKWDLIKLSFCTAKE TTNRVNRQPTKWEKIFATYSSD
13951	44319	A	14033	845	1616	ARAEVKLSLFADDMIVYLENPII *ARAEVKLSLFADDMIVYLENP IISAQNLLKLISKFSKVSRYKINV QKSQAFLYTNNRQTESQIMSEL PFTIATKRIKYLGIQLTRDVKDL FKENYKPLLNEIKEDTNKWKNIP PCSWIGRINIVKMAILPKVIYRF SAIPIKLPMTFFTELEKKNWLA ICRKLKLDFFIPYTKINSRWIKD LNVRPKTMKTLEESLGNTIQDI GIGKDFMTKTPKAMATKA/KKS FCTAKETTIRVNRQPTWEKIF AIYPSDKGLIS

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13952	44320	A	14034	707	2878	TLMQKSSIKYWQNESSSTSKSL STMIKWASSLGCKAWFNIRKSI KVIQHINRAKDKNHMIIISIDAEK AFDKIQPPFMLKTLNKLGDGT YFKIIRAIYDKPTANIILNGQKLE AFPLKTGTRQGCPLSPLLFNIVL EVLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLIRNFSKVSGYKINVQESVQ AFLYTINRQTESQIMSALPLTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDTNK\WKNIPCS G\EGRNIVKMAILPKNWKKTTF R\FIWNHKRACIAKTILSQKNKA GGITLPDFKLYYKATVTKTAW YWYQNIDIDQWNRTEPSKIIPRI YNNLIFDKPDKNKKWGKYSLF NKWCLENWLAICRKLKLDPFL TSYTKINSRWIKDLNVRPKTIKT LEGNLGNITQDIGMGKDFMSKT PKAMATKAKIDKWDLNNLKSF CTAKETTIRVNMQPTWEKIFA IYPSDKGLISRIYNELKQIYKKK TTNPIKKWAKDMNRHFSKEDI YAAKKHMKKCSSSLAIREMQI KTTMRYHLTPVRMAIIKSGNN RCWRGCGEIGTLLHCWLDCKL VQPLWKS\W*FLRNLELEIPFD PAIPL\GIYPNDYKSCCYKDTCT RMFIAALFTIAKTWNQPKCPTII DWIKKMWHIYTMEEYAAIKND EFVSFVGTWMKLEIIILSKLSQE
13953	44321	A	14035	869	3869	RHKKPFFKLTNPGAEIQTIREY YKHL YANKLENLEEMDKFLNT YTL PRLNQEEVESLNRTITGSEI EARINSLPTKKSPGPDGFTAIFY QRYKEEMVPFLLKLFQSIEKEGI LPNSFYEASIIIPKPGRDTTKKE NFRPISLMNIDAKILNKILANQI QQHIKNLIHHDQVGFIQGMQ WFNICKSVNVIQHINRTKDKNH MIFSIDA EKAFDKFQQLFMLKT LNKLGDGMYLKIIIRAIYDKLT ANIILNGQ
13954	44322	A	14036	2	99	

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13955	44323	A	14037	1	914	TVTVIHTVARVGNLDIQIRKS ELFLSLVVCEAIKNEMNVMKLS SPVDLVTATDQKVEKMLISSIK EKYP SHSFIGEESVAAGEKSILT DNPTWIIDPIDGTTNFVHRFPFV AVSIGFAVNKKKKVDETYLGL VKETCFPLQIEFGVVYSCVEGK MYTARKGKGAF CNGQKLQVS QQEDITKSLLVTELGS SRTPETV RMVLSNMEKLFCIPVHG\IRSVG TAAVNMCLVATG\GA\DAYYE MGIHCW\DVAGAGIIVTEAGGV LMDVTGGPFDLMSRRVIAANN RILAERIAKEIQVIPLQRDDED
13956	44324	B	14038	91	1959	
13957	44325	A	14039	28	152	LPSPSSKDTDS/AASCCAPRGRA KGSVSNRSLFPPSSVPLP
13958	44326	A	14040	35	879	GSQCSSPPPASRCGSCSSAPSRH CPCRD FEP AVAGLARTPVLT TK TNPSPPARTGLNAPSMGTSLI/P ALCCFPLYQGSTELQCKAP**LP SPSSKDTDS/AASCCAPYFLVLL KVLSSVDNSSIWCSAGPPAQS/S SLYTIPMSSMSAKNCSVLRSGT WASFTCS*GSQRVSLGTPEALG TEDHTSRSLGHS HVCHVDLSPA TASCSFQTASSEVSPPATASCSF QTASSEVSPPATASCSFQTASSE VSPAATASCSFTFSFFVCALWF GICPSCSAAVLST
13959	44327	A	14041	3	159	EHQCENPQ*NTGTPNPAAHQK AYPP*SSGLHPWDNQRQKPHD YLNRCRKGL
13960	44328	A	14042	54	245	GGGGGEAEDRLREPETEKALSS SL/RRAPDQC/RALIMQLFQAHC FFLST/QATAALQAHYAHIFPSK
13961	44329	A	14043	903	1205	WDVSQNNKSYL*QTHSQYHTE WAKTGSIPFENWHKTGMPSLT TPIQHSVGSSGQGNQTNREPNH E*TIHNCFKENKIPRNPTYKGC EGPLQGELQTTAQ
13962	44330	B	14044	1	339	
13963	44331	B	14045	1	1547	

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13964	44332	A	14046	807	1440	NTGKPNPAAHRKAYPPRSSRLH P*DLQQTPTDLQLSDLTPGRKT NKQKGIASPSTKRTSTPKPHLQ ANAQRFCHHQACVTRVPKGST KHGKEQLVPATAKTQCIVKNIN AMKKLHQLTEIQITIREYHKHL YANKLKNLEEMDKFLDTYTLP RLKQEEVESLNRPIMGSEIEAIN SLPTKKSPGPDGFTAKFYERYK EELVSFLLKLFQSIEKEGILPNSF YEASIIIPKPGRDTTKKENFRPI SLKNIDAKILNKILANRIRQPIEK LIHHDQVGFIPEMKGWFKKCKS INVIHHINQTNCKNHMIISIDAE KAFDKTQQPFMLKTLNKLGTIR QKKEIKGIQLGKEEVKLSLFAD DMIVYLENSIVSAQNLLKLISNF SKVSRYPKINLQKSQAFLYTNNR HMESQITSELPFTIDTKRIKYLGI QFTRDVKDLFKENYKLLLNEIK EDTNKWKNI PCSWIEESIS
13965	44333	A	14047	603	764	LPLFLIEYPLFLSLA*LPWPKLPT LC*IGVVREGIPVLCCFSKGMLP VFAHSV
13966	44334	A	14048	1566	1865	MQSIRKTIGIHAKYDKACRNGE DICLRETN SAADTQAKRV*SGP PANSNRPA AEGPDC*KEN*QTE RTSTPKPHLYVTIHKDQRGQTLL TNNGTKLDRE
13967	44335	B	14049	1	1932	
13968	44336	A	14050	711	1575	TRKFRRNG*IP*HIHPKTKSGR SRIFNRPITGSEIEAINSLPTKKS PGPDGFTA EFYQRYKEELTNIL DEHRCKILNKILANGIQHDIKKL IHDDQVGFI PGMQGWFNIRKSI NVIQHVNRTRDKNHMIISIDAE KAFDKIQPFMLKTLNKLIDG MYLKII RAMYDKPTANIILNGQ RLEAFPLKTGTRQGCPLSPLLFN IVLEVLARAIGQEKEIKGIQLGK EEVKLSLSADDMIVYLEKPIISA QNLFKLISNFSKVSDTKSMYKN HKHSYTPITDKQRAKS

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13969	44337	A	14051	1	1579	MQGWFNVRKSLNIIHHINRND KNHIIISIDA EKA FDK IQQPFML KTLNELGIDGTYLNIIRTIYDRP AANIILNVQKLEAFPLKTGTRQ GCPLLPLLFNIMLEVLARAI RQE KEMKGIQLGKEEIKFSLFADDII VYLENPIFSAPNFLKLISNLSKFS GYKINVQKSQAFLYIINRQTESQ IMSELRFTIATKRIKYLGIHLTR DVKDLFNENYKPLLNEIKEDTN KWKNIPCSWTGSINIVKTAILPK VIYRFNAIPIKLQLTFFTELEKTA LKFMWIQGYSNQNSMVLTLV IPRKMRS AVELQQTSTDLQLRD LTVRKKTNRKATASTSQKGH LHQNPICRSPTSKTKEVGFRRSV ITNFSELKEDVRTYHKEAKNLE NRLDEWLTRINSVEKTLNDLKE LKT MARDLHDACTSFNRRFDQ VEERVTVTEDQINEINDGENGT KLENT PQDIIQENFPNLA SRPTF KFRKYREHYKDTPREEQPQDT* LSDSPRLK* RKKC* RQPERKVE LPTKGSPSD
13970	44338	A	14052	50	1105	TRKSRRNG*IPGHIYPPKTKVQE EGESLNRPI TGSEIEAI NNLP TK KSPGPDGFTAKFYQSTNNKNH MIISIDA EKA FHK IQQPFMLKTL NKL GIDGTYLKHRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCP SPLPFNIVLEVLARAI RQEKEIN CIQLHNEEVKLSPFADDMIA YL ENPIVSAQNLLKLISNFSKVSGY KINVQKSQAFLYTINRQTESQI MSELPFTIATKRIKYLGIQLTRD VKYLFKENYKPLLNEIKEDTNK WKYIPCSWIGRINIVKMAILPKV IYRFNAIPIKL PMTLSSQNWKKT TLKFIWNQKRARIAKSILSKKN KAGSIMLPDFKL
13971	44339	A	14053	1	764	MQGWFNVRKSLNIIHHINRND KNHIIISIDA EKA FDK IQQPFML KTLNELGIDGTYLNIIRTIYDRP AANIILNVQKLEAFPLKTGTRQ GCPLLPLLFNIMLEVLARAI RQE KEMKGIQLGKEEIKFSLFADDII VYLENPIFSAPNFLKLISNLSKFS GYKI*FPLFLIEYPSFLSLA*LPW PALPTLC

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13972	44340	A	14054	1	344	MGINQRRKAENSKNQSASSPTK DCSSSPAKEQSWTENDFEELTE VGFRQANAERFCHHQVCPKR APEESTKHGKKQ/RSISHCKNM PNCKDHRCYEETASTDSLAETQ QQKREF
13973	44341	A	14055	301	370	DDGVF*IDNHVICKQRQFDLFS
13974	44342	A	14056	1	1418	MVREGFPPEEVT FELKNELEISK GQQMGKNIPDTGASSAKALGE RELGTLDKMKNPSDGSKKDIR THRKEAKNLEKRLDEWLTRINS VEKTLNDLMQLKTMARELHDA CTSFNSQFDQVEERINKIDVRLA RLIKKKREKNQIDA IKNDKGDIS TDPTEIQT TIREYYKHL YANKL ENLEEMDKFLDTYTL PRLNQEE FESLNRPIIGSEIEAVSNSLPTKK SPGPDGFTA EFYQRYKEELVPF LLKLFQSIEKEGILPNAFYEASII LIPKPGRD TTKENFRPVSLMNI DAKILNKILANRIQQHIKKFIHH DQVSFIPRMQGWFNICKSINIHH HINRTNDKNHMIISIDA EKA FDR IQQPFMLNTLNKLGIDGMYLKII RTIYDKPTANIILNGQKLEAFPL KTGTRQGCPLS/ATPVQHSVGS SDQGSQARERNKGYSIRK*GSQ IVSVCR*HDCIFRKP HRLSPKSP
13975	44343	A	14057	1240	1596	CYSFLFVRCPSDSQVPQLQVC/C EFAGGPLQTVFAWVSPA EVVE MFLQG*RKPFYMSY/TSFEMAL MKVWTMVRTSASPVGDFGR GWSPFPTSTVGALT VFGVSPGS CRSSPLPSERLWV
13976	44344	A	14058	507	971	PANQKKSRTRRIHSQILPEAQR GAGTIPSETIPINGKRG NPPKLIL *SQHHPDTKA WQRHNRKREFY TDIPDDH*CKNPQ*NTGKPNPA AHQKAYPPRSSWLHLWDARLV QRTQISKRNSSYKQNQRQKPHD YLSRCRKGLQQNSAALHAKNS
13977	44345	A	14059	561	758	
13978	44346	A	14060	2364	2663	DGQLTLVSILNHYS LAQSCEY* DGEFCFLHCSASPFL*EGAQST ACTAPPECFASDLGAV*LPQHS WCSTLLLEGAPWPGTLGTAPQF QHRKLGTNLAG

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13979	44347	A	14061	1	64	MPIGKVGEYYIKGTLRATKESE QQSSALELSSDRVYLNEKEPGD QPWNAAFVFRGCGVALALRPP HLGWGEPRWAGFRGAFGFPFS TLNPSNWSLTLIIQGCKQEGFYS PSMRPRVVPKRGSAPKVRAEEN AALPSRCPPGPLPVAQP/TGPAD GGSCSEQCPCGCGCCQLPPPLP WFPR*TPCDKRV
13980	44348	A	14062	1	774	MFVWSNVEGHSVAMFPWYSIP FLNPPCSHTRPSNLPVTQWPPT ENNLPWSQLLLTSHQAQFLSA LHKEQGSSEKDGRSPNKWDK DHIRCPMS\AVMIFSKRHQAL/V RAHQGHPNQDNWTVSQMLSK WWYTLGPNERQKYHELAFQAT AALQAHYVHIFPSKGRWELLH GSQRLDWGRCQLKLLGQQGQ DVLHTNLGKEENSSCWGYKME CEEFGFPQGGDCGLGGVHAPL LSPEGLDSEQNTLIMGDIFHCA KKLP
13981	44349	B	14063	1	753	
13982	44350	A	14064	2	1457	YPRRRPSRAGVLAGPAVLGAPP SSPGRPRRAAFFAEPFSARRS PRRAAVLAVPPSPRRRPRRAA VLAAPRVLAAPPSSPRRRPRPP PSSPRRRPRRAAAGSLPGAELP QSSRLAAHL\AAD*PDS*IAAGA VPRGWEGLTIMAEGKEEQVTF YVDGSRQRAYAEKPPVVKTIRS CTV/SGHSRHNSSSGM*/SSPNSP /IPFQFTFQIPSLQAALWLCL*V TWHFFVR*PVLSSRHCFSPGGLF SLSLQSAGCPAGSLQAEFVALP PGGQSRLHRTRAS*VPGAFAQEK CPLERVWPFHPSKQHPRNGLAF PLP*APQRTQPAEDTLPRHP GLILSQGTAG/PGRECQATQLPA QHSHAENVLHFGGAMSGQLSLV GPQDSKRTARLTDSQHLGSPT* QPPGLTEGTSLEQG**S*MGWM VGVIAGAPSGWSGSSGPSEGTP LFSSPA*LPWPELPTLC*IGVVR EGIPVLCQFSKGMLPVFAHSA
13983	44351	B	14065	72	1235	
13984	44352	B	14066	1	2715	

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13985	44353	A	14067	50	1304	TRKFRRNG*IP*HIHPPKTKSGR SRI\FNRPITGSEIEAIINSLPTKKS PGPDGFTAIFYQRYKEELTNIL DEHRCKILNKILANGIQHDIKKL IHDDQVGFIPGMQGWFNIRKSI NVIQHVNRTRDKNHMISIDAE KAFDKIQQPFMLKTLNKLGDG MYLKHIRAMYDKPTANIILNGQ RLEAFPLKTGTRQGCPLSPLLFN IVLEV LARAIGQEKEIKGIQLGK EEVKLSLSADDMIVYLEKPIISA QNLFKLISNFSKLSGYKINVQKS QAFLYTNNRQTESQIMSELPFTI ATKRVKYLGIQLTRDVKDLFKE NYKPLLNEIKEDTNKWKNI PCS WIGRINIVKMAILPKCKTVGLLS NISTHKS AVHALVEAGGIPSLIN LLVCDEPEVH SRC AVILYDIAQ CENKDVI AKY
13986	44354	A	14068	1	1155	MFVWRNVEGHSVAVFPWYSIP FLTPPCSHMRPSKLPVTQWPPT RENNLPSWQLLLMSVHQAQSL SALRKEQDSSSEKDGRSPNKW DKDHIWWPMS\AVIIFSKQHQA L/VRAHQGH PNQDNRTISQMLS EQWYTLGPNEMQKYDLAFQN VEARIRY/CHRPKRARFLSHAS PPWRQLPAAGAEASGAWNLP GGG*HDYNRCSVPVFRTEVSTR PRPSEICGLTQE*TLLSAKSQVG NTFGFAGHTISDTTTPCGLCTSK AAIEVPEADTLPHICSWHKGEE CGLRGPEPSSPPRPSLAARVSA GRGALRRRRRPEVPP\SRAPRSA ATATPANEQRAVADVQWAR ARGGRVRAAGRSGLLRVKMM KMKTVMIH FHLMKDEYIFSS
13987	44355	A	14069	1331	1584	SLQRKAARFASSTVPRRPQGIL PIISFSNVPVGSRRLLKAPLVFIGP G*ITLNRIPYLP HSAARDPFTWN TFSFLLPCEEVPST
13988	44356	B	14070	1	1248	
13989	44357	B	14071	1	459	

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13990	44358	A	14072	1	2156	MGKKQSRKTGNSKNQSA SPPP KERSSSPAMEQSWMENDFDDL REEGFRQSNYSELKEEV RTHGK EVKNLEKKLDEWLTRITNAEKS LKDLME LKTTARELHDECTSLK RVSVTEDQM NEMKREEKFREK RIKRNEQSLQEIW DYVKRPNLH LIGVPESDRENGTKLENTLQDII QENFPNLVRQANI QEIQRTPQ RYSSRRATPRH IIVRFTKVEMK EKMLRAAREKGRVTHKGKPIR LTADLLAETLQARREWGPIFNI LKEKNFQPRISYPAKLSFIDRST RQKVNKDTQELNSALHQADLI DIYRTLHPKSTEYTFFSAPHHTY SKIDHIVGSKALLSKCKRTEIIT NCLSDHSAIKLELRIKKLTRNHS TTWKLNNLLNDYV VHNEMK AEIKMFFETNENKDKTYQNLW DTFKTVCRGKFIALNAHKRKQE RSKIDTLTSQ LKGLEKQEQT HS KASRRQEITKIRAE LKEIETQKT LQKINESRSWFF EKINKIDRPLA RLIKNKREENQIDAIKNDKGDIT TDPTEIQTAISEYYK HLYANKL ENLEEMDKFLD TYTLPRLNQEE VESLNR PITGSEIEAIINSLPTKK SPGPDGFM/RRILPEGQGGAGTI PSETVPINRKRGNPP*/PHFM/SA SIMLIPKGRD TTCKENFRPISL MNIDAKI/RQ* NTGKPNPAAHQ KAYPP*SSGLHPWDARLVQLTQ

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13991	44359	A	14073	3	1794	AMLPMELGCGPLPEPLPVGCSR FSLFK*QTCISTVP/GYMVTAQS MSSTPPPPSPSTLPSSSPPPPLPQ PLPPPPSPPTLSSLSSPPRPPL VSPSTLPSPQPSSPQLLPPSSSP SLSPPPPPSPPLSPSPSAIPSLPPP SPQPLPPPPSSPPSLPSLLPPP PLSSSPSSPLSPSPPPSPPSLPPS PPPSPPPPPPPQPPSPSSPLSSPP LSSSQPSLLPSSLSSLPSSPSPL LPLSLPLSISPP*LSLLSPLPPSPS LPPSSFQST*TIGQCFSL/VMWH VAPCTYLALAGNTLMAWPLMS ASSKASGGVSMFVWRNVEPCS VAVFSWYSVPFLTPPCSRVRPS NLPVTQWPPTRAKNLPSRQLLL TSVHQAQSLSALCKEQDSSSEK DGRSPNKWDKDIWWPMSGG HDLQQAAPGPGRAHQGHYPYQD NWTISQILSERWYTLGPNEMQK YHDLAFQHMAGEDIASDEEHM VIHEEEGVMVSLLMTALAPLTL ISSSRIFGKVYGPPTSSSYTYSD ASSSTLAPTSFLLGPGAFKAQES GEEAEDGLRELETEKALSSSL/R RALDQ/*LALIMQLFQAHCFFLS T
13992	44360	A	14074	1	2496	MLLSIDAEKAFDKIQPFMLKT LNKLGHGYESHHLHTTNDVDE EDLSDAASKGDDFALSEQSQD AHFLQPEAYGLGEGAETATGT AHQGNHVRVEECGRSLCGCVP LVLHPLPDPSLQPHEAQQPASH SVACNQRKQPAKLPAVAHERP PGGTGSVDPGRPPGATCPESPG PATPHTLGVVEPGKSSPPTMEE EPWAPQGSPCWTAQSLSALRK EQDSSSEKDGRSPNKWDKDI WWPMS\ALMIFSKRHQAL/V
13993	44361	A	14075	4317	5099	KMFVFLCISAQLSLQCFRGSFHF IKIYDFSQFLFLFELPYLLLLN HFKMLELVLQQGHPNQDNWT VSQMLSKWWYTLGPNERQKY HELAFQVKVAH\CNKD*KKFSS EAKPTSQGLAG\GNKGSWEWS MSETGTATAPGVSSSELLSVAQ TLQSSDTK\SSFCGAEWGHP*GI GCDDVIADDDGFSTTDLDKFKE WVTDAESGDNSGEEPEGNGFG GKVFAPVIPSSFT/HCRPLLDPE/ PPGSPDPPAAFGKVYGP TLSSSY

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13994	44362	A	14076	1	637	MSRVGSCRWVCGLADFKNGAT DLCDKSLHNRELSAERPLNEQI AEAEDKIKKTYPPENKPGQSN YSFVDNLNLLKAITEKEKIEKER QSIRSSPLDNKLNVEKDVDNFQ EFGKLIDGYDSTKEWDVWHKF QDIPNVLVGTA FNVDGNGGF VVHWLNNKEFHFTSSTEVMFH QLRKLSDKQVDHENDDADRED EEHSQEDRERGLHMKLDH
13995	44363	A	14077	448	464	KKRA*GSVSQRFP AET*LAD*VI NTGSQEA KRREQR
13996	44364	A	14078	179	382	NTPNQRSVASNR FVKCTHQHS VKCTQSALCKMHQSAGFLKVD NHRED*KKGHSDRAKTEHGRG QIRE
13997	44365	A	14079	697	1654	PKPSVGRMGFLGTGTWILVLV LPIQAFPKPG\GSQ\DKSL\H**ED LSAERPFELNRLLEAEGRTFRK KTYPPENKPGQSNYSFVDNL NLL\RAITEKEKIEKERQSIRSSP LDNKLNVEDVDSTKNRKLIDD YDSTKSGLDHKFQENETADNSF SQEEEPVVAGEDLPPSPQESD VQPVQPEEVSARDLQRLDLQI KLSTQA AKKLKEESSLERMRE ETSLSPTVPTKRWDTRILLIGAF YRVLIGAFYRVL MGAFYKPIAS YRALIGVFYRALMGAFYNPLV RQKSSPRPHSTQEVQLASPLTN TQITYYVIFTV
13998	44366	A	14080	72	1117	ILENHLSDRVAEGGPLQGLRLG VQGEAVPPGLVHQRGGLGPLD GELIGSVGQQVSDVEGAGSHR G*RHTGRTPAVSAGPAA*SATH TAPMWLAGWYEP AQPGPVLV SPPTPFGQTRQASWCSA*ARCA GSWWH*HQTPGGA*RVAAPAP SWSRSCP*RPTRSPAAAPPAPSR PGRAVGLATGAGHPAQHGHGR AVPTGPRAAGAGSWSELCPPSS CAGTSRGR*AGTRR*AAPAGSG RPGPGA WAGPRCSRSTYAAAA CGRGGA*AGADSGPRSGTHAG HCGARCRSSTPLVPAAAGHLPP PGPGRTGDCPASSCPGPGLPHG CSLSGSWGEGWVSAARQAGLP WAVA
13999	44367	A	14081	2	269	
14000	44368	A	14082	1	591	
14001	44369	A	14083	2	477	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
14002	44370	B	14084	237	419	
14003	44371	A	14085	2	1220	LPPGFVMAAAAARWNHVWVG TETGILKGVNLQRKQANFTA GGQPRREEAVSALCWGTGGET QMLVGCADRTVKHFSTEDGIF QGSETLPGVGEGMFRGLAQTG TLITCVDSGILRVWHDKDKDTS F*PTPGTESGPWGCVCAGTQA HPHVVCHRLGKRMLLKIWDLQ GS\GNLCFKAKNVRNDWDLR VPIWDQDIQFLPGSQKLVTCTG YHQVRVYDPA SPQRRPVLETT YEEYPLTAMTLTPGGNSVIVGN THGQLAEIDLRQGRLLGCLKGL AGSVRGVAV\HPSKPLT*PPVRL DRVLRHRIQNPRGLEHKVYLK VSIE/RALLLSGRDNLGG*APEP SKTQTRCP*EDTEDR*TLGDPW RQLPSGKLFVWSSPKELSKRD GERRSGLGPPAPDAPVPTL
14004	44372	B	14086	96	592	
14005	44373	A	14087	102	612	HCAGSPHSPRSLSGTPLPGLPL WRHLRSPSAHRCTVGAPFWAG QDRSQLP*LAGRCGGRGPSGNP GCA\PACGPAGVPGGRGLGGPR TRSSQPALPAPGNEGLSTRASG CRGRTGSPSSASPPLGLSCLPAG QGWWGP/GSPPCVSLPPTPWAPV RPEPPG*AAPPAPRRPVP
14006	44374	C	14088	1	636	
14007	44375	B	14089	31	612	
14008	44376	A	14090	234	504	SFYHLGAGE*PGKSRVPIPQFQS PWGPYCQGRARGGEVCHLQAV PPRGAGAARTLSGHPLGSPEQL PQPGPAAELPGGVVPRSTPPCP
14009	44377	B	14091	1	924	
14010	44378	A	14092	11	354	RLSTSPDSSGAQLASPSGSHTRA AGGAACQSRAVRS/PFPSPWVV DGTGCGGAGGGARWGGSGCT GAHGVGGR\PGMAG*GPEPCP EGRQLRPLAPVGCQ*REP\G*K NSMGETTT
14011	44379	A	14093	147	513	GSASGVVRLSRWARGLAGFRS EAADLRGECYSS*GSASGVVRL SRWARGLAGFRSEAADLRGEC YSS*KQRGPKELRSPAGFT*WIP /LPGLQVELPASPAPCAPTPQPL SG*WD\GRRGAGGGARRGGSG RTGALGVG\GGSGMAGCRSRA LPPREGS

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14012	44380	A	14094	418	1026	WNPHQGCRWSCLPVPRHALAF LSPWVIDGTGRHGAGGGALWG GSGRTGAHGVGG*GMAGCR SRALPHGKAAKAR*EIERSASG/ TGTAGGPSTPSAATGPGAKSLI ARGQQGWPAAPSAGPAKPTPT GNSSWPASAAGSSGSCSRLS/SP HLPAS*GSLQWPWPAQKGAPT VQQQAEGLPPIRLPEEWISLPFLG HQGEHSGMA
14013	44381	A	14095	897	2111	PLLQSSPNFFLICYPWHNSHE NTHRTGRRGAGGGARRGGSGR TGAHGVGGRLRHGGLQVPSPA PWECS*GPARNRAQRRYHCSCP GLQSGLPHYSGYHT*PDEKEKN GREGQKLER
14014	44382	A	14096	1304	1922	KLNIGVIYSSEIPDSGAQLASPS GSGTRAAGGAVCQSCALRSHSS ALGWSMG/PGRRGAGGGARW GGLGRTGAHGVGGRLRHGGLQ VPSPAPREGS*GSVRNPAQRRW AGTAGGPSTPSAATGPGAKSLI TRGQQGWPAAPSEGA KPTPTR NSSWPASAARSPGSRSR/RLPPH LPAS*GSLQWPWAHYFEFFLPI GQNAQTEVSY
14015	44383	A	14097	318	533	MVCFDGDGPWVVDGTGRRG AGGGAHRRGSGRTGAREAGGR LRHGGLQVPSPARREGS*GPAS PAGCLAHL
14016	44384	A	14098	346	957	ARYTLHIPTRLGSPAGFTQWIPH RGCWWSCLPVPRRALAFLSPW VVCSPVDGTGRRGAGGGARR GSGRTGAHGVGGR/PGMAGC RSRALPRGKAAKARREIERSAG G/TGTAAGPSTPSAAAGPGAKS PFARG/LAGPAAPSARPAKPTST RNSSWPASAARSPGSRSWKMS LYMKKSASGQSQAQWIAKMW KSPRFKPLWLTS
14017	44385	A	14099	124	663	SCLPVLRRLTFLSPWVNGTG RRGVGGGARRGGSGRTGAHGV GGR/PGMAGCRSRALPRGKAA KARREIHSAGG/TGTAGGPGT PSAATGPGAKSPIAPGQQGWLA ALGINGAGERLFMKVAFSLKTC SLSCSYLRRLTSLRGGSVHVLRG NLTVCQPQALLRVVFHHQRQ ADCGALPVP
14018	44386	C	14100	1	672	

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14019	44387	A	14101	3	1759	RPLRGWRRTRDARAPRRRCRG SHGARRCLRKTAATSRCGGAP GPARSRPPSTGQAAEAGDW/PAG CNP*GGLRAADGPGSRPPRGS GLLCGQGGQGGSSPWVHGTG RCGAGGGAPWGGSGRTGAHG VGGRLRHGGLQVPSPAPQEGS* GSARNRAQPRWAGTAGGPSTP SAATGPGRDGEGG\ETGAHVSA LKGTGTEWPAHGLVPYSIGDQ TCLIFKVTFAVVLKCGPQTTS STSISCPGSAN/SPPSPAG*/GSSG CGSSSLCSAHSVQEDSQPQ*KR TGLQS\TYGRSGSSSNEPRYHSD LPTSRSKLRNEDTFFGRRKKLS EVQRTGQDPA*SHHTSSYTLPGL L*TAEGKDRVENAA*KGSPNFQ RSGTFNPKGGARKTRQAWHPR APNCQAGTPPREGSSGPRTSLS AAFRIPQEVVNFLISGPITRAQR HGEPEsprGQTGSPPLGKTGSE GDRKSTGADKKSTGDRQEV EPTESQGLDRKPTGMDRRSTG NRQKVRRQIGSPLGLNRKPNGT DKKSTRNRQEVRRRQSAGARQ ERAGSSTFLRLSALCGLLDVN REQVAKQKWDLYSSRFTSGNR
14020	44388	A	14102	1879	2607	GKPSLSLHPGHKCGISRCNGNV SSRLRSPAGFTQWIPHRGCRWS CLPAPRCALALLSPWVVDGTG RHGAGGGARRGGSGRTGAHG VGGRLRHGGLQVPSPAPREGS* GPARNRAQRRWAGTAGGLSTP SAATGPGAKSPIARGQQGWPA APSGGPPSPSPPGTPAGPQAPH AAPVPA\PLPPHLPAS*GSLQ PWPAQKGAPTQGGG*RAPQM PPKWEPRQRRIVAFTEVGVL
14021	44389	A	14103	2	272	GHWGMVNSPCRASATVSRGSP LPGVLTSPSATSTCRMCHPR RCPLPFRRLSPPSLTPP/PGKPPL LPRPHSMPLGLPLGGLPVFHP

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14022	44390	A	14104	101	1815	QSARQLRPCPGAPSLAGVENRR KKTNTLTS AAPDTQSTCGQSC GCLHSMGSSCMQHSYYTGFLR SLWPCRCHRSASFSGQRRSEKD SKSVRERSGRSQNVPARPALTS PLTQSPGPLAPGAGWSRSQLG TGTGVLWWQRESATGDFRTES ARSSDPSRRDWPGAKRKREEG AATVLWACATASTAIICQDNAI SPLKSGNSPSNHLWRPQGQLPP VLGLAQPKRWRPNRLTTSPPSPS RMMARPVDPPQRSPDPTFRSSTR HSGKLEPMEATAHLLRKQCPSR LNSPAWEASGLHWSSLDSPVG\ PCR*GLRPSTHGAR\TFSGARP GLGGYSPPEEAMPFEFDQPAQ RGCSQLLLQVPDLAPGGPGAA GVPGAPPEEPQALRPAKAGSRG GYSPPEETMPFELDGEGFGDD SPPPGLSRVIAQVDGSSQFAAV AASSHQCLSHHIPMSPSVGRNG LLTKPPSTSRRGKLTGRDDMY FVPFRSLNDMMHMLPFIEDSR WTHNLDINREQKTNPLAGPKG RPISRTQAAASTSNSKTESIQIE KTEEAPFSLRYININNRSM DPLN
14023	44391	A	14105	39	877	AGPGPPRPLPPRSSEGPPGASISL CSEVPGPSCQGRFRGGRDAMS MPWREEERSLLAGE*PS*GG*S GRGVSRKCS*PGPRGVPRPRPL RSRPRAASSE\DQNSPLDQSLHR TRKTIPSSGGSTAIMPRGSSSE TFFSAPSKTWVLGIPGETFISGP AAFPAPGGPRAAPRPSPLNSL *SGGNGGPGPRLHFSSCGKGP PRPSNSRN\GGQSACQGGSHLV C*SHRGS LGEGHAYQGDPCSPG HPAKAPSRAHAQARRSAHAAS LTSGPCDASCQAW
14024	44392	A	14106	358	546	CFPSRIRLALSRAKWP AKRSPS EPEMS/PPVWSPHPDPNNTAPPK EQPPSSPGRVGRHGNWSV
14025	44393	A	14107	22	549	DHCLCSVVRNKRDSVYPLPIPP CCKTSTISPP/LVDAVRP*DISVS KRVTS CAPLEPQPHCLPTINAG R/TLARPQGAPTPNKEEGQAPG RATASGQAAPATTVLGD TTK/G PQGRHRGTSASAAGPAPFAVA DQLPPEDRAASA EGRK*AAAFP FCHRLVQDGGPPPPAAGVPGA GES

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14026	44394	A	14108	146	2616	LAAVGMASHCFRQRRQSQSPA\ GLRGAGSAYSPPA\EGARSSHGQ/ PPWRGRRRGPGDPVRGAARCR RPRAAAQPARPAARPPARPRPA P*AACCE/VPSAANSVAPSAAM *SSAGRDGASSQSRRRPHAAPP RSSALPANGK/PPSPVTRAARTC GARSSNTGA*SAARPKHSAASS RHPPPA/MPLPARHA/PGGTSG RPLPTPQGSAPTSSASPRGPATP PPAGPRAPPPSPRRAAAPRPPGR QLSPAPGTPAAGGGGPPFPALR *SGSVFGRQLVGDGERGRACG ARGSAVPALRTFVVPSTVVA GAACPLAVALPAPDPLPCSE*A PLRSG*VPQPASLFCSQFRPQA WQHP*LLRAPCPRLGAAVPCV WCHSRALDSATPRWM*G*RLP AVWLPAFPSPFFNQAFVPPCQQ NCSLQNRQTLASAKIGTEWD IAKIPENVEVTLELGNEQRLEE FGGLRRRQEDEGKFGTPTDWL NGCDQNADSNMDSEGQGEDG GCSFGGAGLRGSGWGDQTRET FLALKANLRWPFRSSAQSQTSQ EGAAGARSGLKGGKKNPLKLP KKQAKKMNAFKQKQEKERK KHKELKAKASWKGLRPQVEFK NLAERRGEAAVPGCPVVAGHS WRLLSLARGCAKRARQLLPSE KLLAALREGSTRGGGAASQPQ RKLRVCMRVLDSSEDFHMDG
14027	44395	A	14109	1	885	MIISIDTEKALDKILHPFILKTLN KLGIDGTYLKIIRALYDKPTANI IMNEQKLEAFPLKSNTKQGC PF LPLLFNIVLEVLARAIKQEKEIK SIQIGREEVKLSLFADDMIVYLE NPIISAPNLLKLISNFSKVSQYKI NVQKSQAFLYTSNRQTEIQMM SELPFTIATKGIKYLGINHPLTRD VKDLFKENSKPLL/KELEKTTLN FIWNQKRAHIAKTMLSCKNKA GGVMLPDFKLYYKAAVTKTA WLGDDQVFLIPRGHISDYHMG KNLGQYPAFQDRGPCGFPQCIV PLVYRD

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14028	44396	A	14110	453	891	LIHLSTDALRVSGWGTVRSFSS HEAIFQTIAWGETLDNTLLSRA EVPAAFHGALCPWFIETREWQ* LLQSILLVNIWLTRHVLHSPRSL KP*FYTT*VFVCSKLGQSGWGK VAGAKLQMNNISAKQLFKVQV LFKIESLMSSLST
14029	44397	A	14111	452	2922	KMGLAREWILRFLVLILQEIRS MRQKENKDIQDLNSALHQADL IDIYRTLHPKSTEYTFFSAPHCI/ RTYSKIDHTLGSKALLSKCKITE IITDSQTTVLSELRIKKLTQNRS ATWKLNS/YLNDYWVHNEMK AEIKMFFETNENKDTTYQNLW DTFKAVCRGKFIALNAHKKRQ ERSKIDTLMSQLKELEKQEQT SKVSRRPITGSEIEAINSFTNPK RVPGPDGFDEPNFYQRYKQEL VPFLLKLFQSIEKDILPN*FYE ASILIPKPGRTTK/EENFRPIS LMNIDAKILNKILANRIQQHIKK LLHHDQVGFIPGMQGWFNICKS INVIQHINRTSDKNHTIISIDAEK AFNKIQQLFMLKTLNKLGTNG MYLKIVRAIYDKPTANIILNGQ KLEAFLKKTGTROGCPLSPLLF NIVLEVLARAIRQEKEIQGIQLG KEEVKLSLFADDMIVYLENPIV SAQNLLKLISNFSKVSGYKINLQ KSQAFLYTNNRQTESQIMSELP FTTASKRKYLGIQLTRDVKDLF KENYKPLLNEIKEDTNKWRNIP CSWVGRINIVKMAILPKVITYRF NAIPIKLPMFTFFTELEKTILKFR WNQKRAHIAKTILSQKNKAGGI RLPDFKLFYKATVTKTARYWY ENRDIDQWNRTEPLEIMPHIYN HLIFDKPDKNKQWGKDSL FNK WCWENWLAICRKLKLDPFLTS
14030	44398	A	14112	3	3349	

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14031	44399	A	14113	294	1107	RRHRLNYIPRTAQSPHPRKAL ARSESKRDGGFKNWFSFDHEE ESEGDTDKEPGPLDAPRP/ESG PRAPGKGL*RRSRSPGPSEGRSA ARLTAEPEARNPAASTLLRRGP SSRRARRRCGPWIKKEAAWEE EDGGRQERRLGQDLRTRTLNK SKGGIDSRIISLGQHSHPHAKL WLDQSLREMEVLKIIGALIMKK KVKEIQIKSRARSTPLHDQIGTT SPRERTIASKRHPYYITPKGIRY EQDTLSRTPITTIRSRQRPLGPLT ASPPPSFPTLAPPTQAIKPSLHLR EGKPTPTPGERSTRPHHPEPPRK EYALSSLYPPTYLLAPTSTDLG NAHPTQEPQFNVDATHPRQNR FIPVAGNSPKRSSQFPIVFAPKK NTTPPYLDFAAILGLHRRPPRSR FRTSYPPKEFRSSPPPERTAPRN
14032	44400	A	14114	2	297	VQKSVLCSFQAGTMEGVVEEKK VPAVPETLKKKRRNFADAIQFL QTVFLAF*YTLLKGRQ\VYWL V EE*HQFYKISYRKKMVQRIQ H PQSCTVQKSWWP
14033	44401	A	14115	3	754	GTMEGVVEEKKKEVPAVPETLK KKRRNFAELKIKRLRKKFAQK MLRKARRKLIYEKAKHYHKEY RQMYRTEIRMARMARKAGNF YVPAEPKLAFVIRIRGINGVSPK VRKVLQLLRLRQIFN\GTFVKL NKASINMLRIVEPYIA*EYPNLK SVNELIYKHGYGKINKK*VALT DNTLIARPLGKYGITCMEDL/IH EIYTVGKCFKEANNFLWPFKLS SALSGMK/KKTTHFVEGGDGG NRVDQINTLNRRMN
14034	44402	A	14116	1	388	

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14035	44403	A	14117	1	1145	MTRNYEWLLEAESSQPPIAFQK MEPQPYNSKELNSANNQCLLE KPKLRQRLKDKEYDQGHTAVQ CQSWVYVLT PDSFCQQLILLPS TENFHECSRSDTAGHLRTGHVA SNWLSEHSPQTMPAAMQWDK KMQNTSSWFPQKAPEKVKPMS KLWQTPSQNDTLYKAVKALTL SSPERNSINTNKKDVHTETSSK GHQHQRPKVDKSMKMRKNQH KKAEN SQNQNASPPRNHNSSP ARERNWSENEFDELTEVVFR WVITNSSELKEHVL TQCKEAKN LEKRLEELLTRITGLEINQAEERI SETEDQLNEIKHEDKIREKRMK RNEQILQEIWAYVKIRPKLRLIG VPENDRENGNKLENTLQDTIQE NFPELAR*ANIQIQ
14036	44404	C	14118	291	551	
14037	44405	B	14119	1	1308	
14038	44406	A	14120	82	367	ITLSSPPHSFIGHKTPASGPPQKI PPQPSQ/CKQWGDPTPVEAC/CV SCPTQGFISPTRGGPPCKHESLV VPLVGT PRRNQPGGHIQHSQR WAPVLT
14039	44407	A	14121	999	2661	VHLTGC GPGQPVPPEPAPPRGL RSMRC/GP*GFSPGAEA*TEP/C HYGGRGFPCGPFSLGCLATNSP WLPGRPPCSPWAGPCGLCPLP AAAAERQPALSVPGASPSRLL PLVVLCHGSHLNGGRVLLRPG GSPCGHCHNCAGARRGLGHVL QGGAQARQREQLQR
14040	44408	B	14122	164	1042	
14041	44409	B	14123	320	566	
14042	44410	B	14124	1539	1674	
14043	44411	A	14125	185	780	QKAKKGKLRSKQNSFPGLKK TVPSQLVQYCPSF*ISWKPMVY QKVPA*PRPPRTPDHHPDPGPA PHPRQHHPPRSPDAEP/SPTTPT RRRPPTQPPDHPKRPPPHSKPH PPQQPPTPTATPTEQQRHTAPP TPRPPTTHPPSTPKHPA\ PHTAPP PTKNTKPPTPQRTTQDKGRQKK PRRQPHHSEPNKKSPKAHI
14044	44412	C	14126	1	1128	
14045	44413	A	14127	319	536	
14046	44414	C	14128	231	425	
14047	44415	B	14129	1	1431	
14048	44416	A	14130	75	393	
14049	44417	C	14131	174	371	

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14050	44418	A	14132	79	164	
14051	44419	A	14133	343	775	
14052	44420	A	14134	554	724	SEGPSKEPTHRRMKFSHHDDL FLDLSN*QPPNSPEPHPPQSP*KP WPQNPPSSRQM
14053	44421	A	14135	20	242	VSFLSMGSGHCIRSTRGSKMVS WSVIAKIQEI*CEEDERKMARES LAESMSTYVMMNHTYDS*GK THILIMKK
14054	44422	A	14136	229	366	
14055	44423	A	14137	131	505	
14056	44424	A	14138	1	1317	AGCSCGSRAMAEQGRERDSV PKPSVLFLHPDLGVGGAERLVL DAALALQARGCSVKIWTAHYD PGHCFAESRELPVRCAGDWLPR GLGWGGRGAAV\CAYVRMVFL ALYVFLADEEFDVVVCDQVS ACIPVFRLARRRRKILFYCHFA DLLLLTKRDSFLKRLYRAPIDWI EEYTTGMADCILVNSQFTAADF KETFKSLSH\KDPDVLYP\SLNV TSFDFSCS*KAGMT*SPRGKNS WLLSINRY\EREGKIWTLGTK ALVQLRGRLTSQDWERVHLIV AGGYDERVLENVEHYQELKK MVQQSDLGQYVTFRLSFSDKQ KISLL/RQLARVCFYTPRQ*GTL GIVPLGRPCYMAVPQFICCLIRV GPFSSSI*PQCSQGFCVEPDVH FSEAIEKFIREPSLKATMGLGWE EPE*REKFSFGSILQEQLYRYVY
14057	44425	A	14139	1	648	MESKEEQGVADHQKATRGIP TPQPREVVSERATQRGNRAFST KLCNPKTNRKQQQQYQQQQK GRKTLPKGQHPQRSKLDKLTE MRKHQQKNTKNPKGQSPCSP NDCNVSPARVHNWTGDEMEEL TEVGFKKWVRKNCAELKEHVL TQCKEAKNLDRLEELLTRKTS LERNINDLMELKT/RA*ELCKA YTSINS*IDQAEERISEFEDHLAE

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14058	44426	A	14140	1	1365	MPVKGGTKCIKYLLFGFNFIW VSEDCRALLSGPTCSRAPDTG RGRECRQLALPAPGRHRAGRES ALRLPAGSKAGSRAGRDGRDG RIRVGVSGLTFLGSTTGLFNQSL AETGFTPYTQKSNDLVKSLKI WHTYFKNFHQEARLYIRTSPGS NWNWFCTLGIESPEQPGVYEG QRPRVVTKSFASLTLLKRVGTVL LLAARINADVLYVLQLAGIAVL AIGLWLRFDSTQKSIFEQETNN NNSSFYTGVIYILIGAGALMMLV GFLGCCGAVQESQCMLGLFFG FLLVIFAIEIAAAIWGYSHKDEV IKEVQEFYKDTYNKLTKDEPQ RETLKAIHYAVCRLGKDTLLRF LRIVSAHRLNCCGLAGGVEQFI SDICPKKDVLETFTVKSCPDAIK EVFDNKFHII GAVGIGIAVVMPS FRSNHPDPHVSSYLLNIFGMIFS MILCCAIRRNREMV
14059	44427	B	14141	98	1064	
14060	44428	A	14142	560	964	KRLPRILGIRGKPCCPDTSRAGR RVRGRAAAPCREAARGRGQRR FLPPTWRCETGAATMFPSALT PTPFSVKDILNITVRPRS/LGQAA LTKRLSASLSPQSCARCRRRWS CVILSAVRGN*YAGSRAHRDCT Q
14061	44429	C	14143	189	452	
14062	44430	A	14144	1	647	

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14063	44431	A	14145	890	2905	LRLSLKFPMSQWTPEYNELYTL KVDKMKSEIPSDAPKTQESLKG LLHPEPIGAAKSFPAGVEMINSK VGNEFSLCDDSQKQEKEMNG NQEQEKSLVVRKKRKSQQAG PSYVQNCVKENQGILGLRQHL GTPSDEDNDSSFSDCLSSPSSSL HFGDSDTVTSDEDKEVSVRHSQ TILNAKSRSHSARSHKWPRTE ESVSGLLMKRPCLHGSSLRRLP CRKRFVKNNSSQRTQKQKERIL MQRKKREVLARRKYALLPSSSS SSENDLSSESSSSSSTEGEEDLF VSASENHQNNPAVPSVTYGGP WSKNIKEKTLEINSSQALTA YE CLHSAHVINLISPFYHHFPSSQE RSYLSTLSTLSNKKTGSVWFTR SPKVTQFFPGGAITGTLQRPER EILRPLALPGKGNTPPYFCSPSM GCTHCPTSPNEMNQISED TAA APVRDIYIKPPSPWDRA PGGRG GCGHSFSRLKSPYL RALKSAAD FPAQHSSSDKGQAASSSGSLTP VYPVWVTPPSRGRQTPHRGEL WLASDGCPSGRKLPEEGTGSNL CCSAASAGDTQANRDHNSSPA REQTWTENKFDKLTEAGLRRW VINSELKEPVL TQCKEAKNLE KRLDESPTRITSSEKNINDLMEL KNTAQELHEEHTSINSQ/DQAE*
14064	44432	A	14146	1	737	LNRGEQRAVRYYS HMKLNMA EEEDYMSGFLH*CP RRYQTRIA NAKANPRSPSKRÆEKQQEANLK NRQKSLKEEEQERRDIGLKNAL GCENKGFALLQKMGYKSGQAL GKSGKSGIGHEASLKRKAEEKL ESYRKKIHMKNQAEKAAEQF RMRLKNKQDEMKGDLRRSQ RACQQLDVQKNIQVPREAWY WLRLEEETEEDEEKEQDEDEY KSEDLSIKKTYLQIVQDQLLQI MTKIIPNKVET
14065	44433	A	14147	1	1860	
14066	44434	A	14148	1	1203	
14067	44435	B	14149	1	1119	
14068	44436	A	14150	1	1407	

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14069	44437	A	14151	1	1731	ERSSSPATEQSWMENDFDELRE EGFRRSNFSELKEKVRTHHKQD KNLEKRSWFFEKINKIDRPLAR LIKKKREKSQINAIKNDKGDITA DPTEIQTITITEYYKHLIYANKLE NLEAMDKFLDTYTLPRINQEEV ESLNR/LNNRL*N*GNN**LTNQ K/NVQDQMD*QLNSTRGTRRS WY/RFLCLKFQSIEKERILPNSFY EGHILLIPKPGRDNTKKDNFKPIS LMNMDAKILNKILANRIQQHIK KLIHHDQVGFIPGMQGWFNICK SINVIQHINRTKDKNHMIISTDA GKAFDKIQQPFMLKTLNKLIGID GMNLKIIRAIYDKPTANIILNRQ KLEAFPLKTGTRQGCPLSPLLF NIVLEVLARAIRQEKEIKGIQLG KEEVKLSLFADDMIVYLENPV SAQNLLKLISNFSKVSGYKISVQ KSQAFLYTNNRQTESQIMSEIPF PIASKRIKYLGIQLTRDVKDLFK ENCKPLLKEIKENTNKWKNIPC SWIERINIVKMAILPKVIYSFNAI PIKHPMTFFTELEKTTLKFIWNQ KRARITKSILRQKNKAGGITLPE FKLYYKTTVTKIAWYG
14070	44438	B	14152	1	906	
14071	44439	A	14153	3	553	EHSSSPATEQSWMENDFDELRE EGFRRSNYSELKEEVRTHGKEV KNLEKKLDEWLTRITNAEKSLK DLMELKTTAREICDECTSLSSR CDQLPRPDGFTAIFYERYKEEM VPFLLKLFQSIEKE/VNPP*LTL* GQHHPDTKAWQRHNKKREF*T NIPDEH*CKNPQ*NTGKPNPAA HQKAYPP
14072	44440	A	14154	1	909	MKAEIKMFFETNENKDTTYQN LWDTFKA VCRGKFI VNVHKR KQERSKIDTLTSQLEKEKQEQ THSKASRRQEITKIRAEKIEIET QNTLQKINASRSWFFERTNKID RPLARLIKKKREKNQIDA KND KGDITDPTEIQTITIREYYKHLIY ANKLENLEEMDKFLDTYTLPR NQEEVESLNRPI TGAEIEA INSL PTKKSPGPDGFTAIFYQRYKEE LECSSSPAMEQSWTENDFDDL EEGFRRSNFSELKEEVQTHRKE AKNLEKRLEKWLTRITNVEKS LNYLRELKTMARELC
14073	44441	A	14155	1	969	

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14074	44442	A	14156	377	687	LLEGKLTNRKDIHTKTPSV/SPP SSKTKEHSSSPAMEQSWMEND FHELREEGFRRSNFSKLKEEVR THRKEVENLEKRLDEWLTRITK VEKALNDLMELKTMARE
14075	44443	A	14157	1	711	
14076	44444	A	14158	1	831	
14077	44445	A	14159	1	744	
14078	44446	B	14160	1	1479	
14079	44447	A	14161	1	810	
14080	44448	A	14162	3	651	
14081	44449	A	14163	2	1067	
14082	44450	A	14164	2	2063	
14083	44451	A	14165	1328	1639	PTNAHETSGRYIAGSSEKRTSA RTCGGTSAARPAGTSMQTRC RQPPSS*HAVPRVAQSSDGL KATHPQAYQPCGHTPTRLPQES NCIEHERGLGKKKKKKK
14084	44452	A	14166	1	620	MTLGYGQRGANKDLRTGFDPD LCTMDNFAEGDFTVADYALLE DCPHVDDCVFAAEFMSNDYVR VTQLYCDGVNDSFLIGLLRIG CKIENERSSSPAMEQSWTENDF DELREEGFRRSNYSELKEEVRT NGKEVRNFEKKLDEWITRITNA EKSLKDLMEKTTARELCDKC TNLSNRCDQLEERVSAMEDEM NEMKHEDKFREKE
14085	44453	A	14167	1	514	MGKKQNRKTENSKNQRTSSSP KERSSSPAEEQSWMENDFDEL REEGFRRSNFSELKEEVRTHGK EVKNLEKRLDKWLTRITNTQKS LKDLMEKTTARELHDECTSLT NQFDQLEERINNIEDH*QD**R RKERRIK*MQ*KMIKGISPLIPQ KYKLPSSENTINTSMQIN
14086	44454	A	14168	1	366	MDTFLQAERKDYMEAYELIEQ EEQGEREPVAVNNILSTEALMA NAKSTLMFYAVGFLWQPGGGR GHKAASNPGVTRDVVGLSSLT FLRGERSSSPAMEQSWTDNDFD ELAREEGFR*SNFS
14087	44455	A	14169	1	1026	
14088	44456	A	14170	1	3906	

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14089	44457	A	14171	1643	2721	IKPTKMGGKKQSRKTGNSEKQST SPPPKERSSSPAMEQSWMENDF DELTGAGFRRLVITDFSELKED VQTHHKEAKNLEKRLDKCRTN G*LEWMNG/ITRITNAEKS LKDL MELKTKARELHDECTSLRSRFD QLEERVSVMEDQKKVMNEMKR EGKFREKRVKRNEQSLQEIWD YVKRPNLRLIGVPESDGENGTK LENTLQDIIQENFPNLRQANV QIQEIQRTPQRYSSRRATPRHIIV RFTKVEMKEKMLRAAREKGQ VTLKGKHRLTVDLAETLQAR REWGPIFNILKEKNFQPRISYPG KLSFISEGEIKYFTDKQMLRDFV TTRPALKELLKEVLNMERNNR YQPLQNHAKM
14090	44458	A	14172	351	898	SGVTAPWRPNGTLLITAATASH PVLAI PAHLCSRPCSFLT TVTC SGPQHHAARGRVPFHC/SECGK SFRYRSDLRRHF/ARHTALKPH ACPRCG/KGFKHSFNLANHLRS HTG/ERP YRCSACPKGFRDST/G LLHHQVK TITT*PD/CGGCLVSN IVGSYSRPPWPCTRGPRRPLGSP SPAPGSVCLC
14091	44459	A	14173	1	551	
14092	44460	A	14174	3031	3207	TIHGCWWDPLSSIF*PFWGRGFI SHKICQAQISFRVISGTVLSLDK LLIMFHKAIFASP
14093	44461	A	14175	3555	3957	ENGQKTWTGTSQRRYTGDRM AQIQNPDTKCW*ECKATGTRI CWWECKMVQPLWKS\WQFLT KLSILLPYNLAII LLGNYPNALK MYAHTKGFTCMFIAASFIIAKT WKQPRRPSVGEW/INNL*LVQT MEYYSAL
14094	44462	A	14176	3	883	CQPYPRPRPTGTHGSCQPPSQ GSAEP*G*CLPTLLRMALKAQP TKVNPRTLLDSDPDVC/S*AAHS RVLITSPSRAPWRLPSP*RRCPA GTCMPSTAT SAR*CSQRPGSSW *T*TGSSLGSQACGPSSSTAPPSS SWSACTCGCAAAARCSCAASS TRSGPTCGSSPPASSCASSTPAP GTTPSSTLT SWASSPWSTPCPGS AGPSSWSSSSSATPSASASTRTL SPGSPAAP*PWPTALSRLTEQEA VWGA WGISHGNSWDKETKLV RLPHPCSKSPCFRPSLQPYRAHR AP

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14095	44463	A	14177	3	395	SAEVGAAETTLTELRRTVQSLEI DLDSMRNLKASLENSLIGILLHL ESELAQTRAEGQRQAQYEAL LNIKVKLEAEIATYRRLLEDGE DFNLGDALDSSNSMQTIQKTTT RRIVDGKVVSETNDTKVLRH
14096	44464	A	14178	2	1044	AKTSSQMPSPQEGMCGKACTP ALSQADSLCPLLRLASEVEGYS LPACAEPYVQSECLSHLSVWSL QHALSSLASMSFTTCSAFTNYW SPGSVQVPSYGTQPVSHAASVY AGLGGSGSRISVSHFTNG\GGLA GMGGIQNEKETMQSLRDRLAS YLDRVRGLETENWKLESKIQEH LNVTRL*LETEIEALKKELLFM KKNNEEEAKGLQAQIASSGLTV EVDAPKS/QDLAKNMADSRAQ YDKLARKNREELDKYWSQQIE ESTRVVTTQSAKVGAAMTLT ELRHRVQSLEIDL DSTRNLKAS LENSLREVEARYALQMEPSLLF SKIIFGRVWEISYLHVFEKGQV

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14097	44465	A	14179	1	2040	MPVPQLPPPVSRLAATAAASVT EPGPNPEAVRSASAEPEVKEGF PSQNHSGVGHSLIPSGGVSAPSS GRSHYGYASEDGTCSKLRVRPR LAAAPAAPFAFVADLASCCQG LSFFEGILLVRGPYRRLRATVV RDLVAVRMAEEQEFTQLCKLP AQPSHPHCVNNTYRSAQHSQA LLRGLLALRDSGILFDVVLVVE GRHIEAHRILLAASCDYFMSFT TRSTFSTNYWSLGSVLATTYGA RLVSSTARVYAGAGGSGSRISV SRSTSFGGLESGLAAGMAG GLAGMGGIQNEKETMQSLNDR LASYLDRVRSLETENRRLESKIR EHLEKKGPQVRDWSHYFKIIE LRAQIFANTVDNARIVLQIDNA RLAADDPRVKYETELAMRQSV ENDIHGLRKVIDDTNITRLQLET EIEALK*ELLFMKKTPEEEVKG LQAQIASSGLTVEVDAPKSQD LAKIMADIRAQYDELARKNRE ELDKYWSQQIEESTTVVTTQSA EVGAAETTLTELRRTVQVFGD STWTSMRNLKANLENSLAGEV EARYALQMEQLNGILLHLESQ LGQTPRTEAQRQAQEQYEALLN IKVKL\EAIEICHLTRPPSWKIGE DFNL\GDS\LDERNMQTIQKTT TRRISWIGQSGVLRPIDTKVLEA LSQQEASGTLLGKQEANKKFQS
14098	44466	A	14180	275	550	
14099	44467	B	14181	729	909	

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14100	44468	A	14182	1	1415	MGTQCDLLAKSLEDPCVDEVE DAFQGLGKEDEEIEQFSDKTFG SGAIDDDWREAHECLAEEVK QPVAVIEQTGNGERDEMDLLD DHEENLAERLSKMVIENELEDP AIMRAVQTRPVLQPQPSLNSSI WDGS/VSSEANPRTTACSGNAY SVCIRICFASEA/SPRVQKMIGTF LNEHYQGGQLHLSLAVLLELS P*APHLNRWLYPASPNRFCVRS LSMFGP/QMPPRYPAPYGERMS PNQLCSVPNSSLLGHPFPSVPP VLSPLQRAQLLGAQLQPGRM SPSQFARVPGFVGSPLAAMNPK SQAPMFRPDTTHLHPQHRLLH QRQQQNRSQHRNLNGAGDRGS HRSSHQDHLRKDPYANLMLQ REKDWVSKIQMMQLQSTDPYL DDFYQNYFEKLEKLSAAEEIQ GDGPKKERTKLITPQVAKLEHA YKPETIICQALCRALHINYLTKA FQQAFEVSASIIYR
14101	44469	A	14183	204	560	QGYWRGCTSSGGDGGCRGCW SPGKRR*GLSRTASGPPAAVAS PGRPRSPPSARTG*S*PGA*ARP CSRTW/PPPRCPLRPPSAARASA SRV/APL/GEPAPANTNIYCAAL THRATKSSTREF

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
14102	44470	A	14184	59	1695	DMPWWPVL PWIKDSSPSSLEM NPDNTSGLRQKSVEAEPCLW MVHRYTPQSTGEACTMAKAA GPSSP\GSCPPRPLGADPWMSR LSH*EC*KTGTTASGYRRHQET APPESSGSPVGLSAGLWLSWA WPVSPACLHPGPPLCP/GPPALG LGPRSPAAS/C/PPLPEAPPACSP FCP*GEISSSGPLEVPVQV*LPGD LSEPPLGTSPLGRAPGLCSLLRA P/RPGAACPPASPSRPAMLLS*E APRRPGPSGETSPSPSLAPSEASP G\PPR\HHNGRDSEGAGTRTPGA SGSSKG/LGGQPAPHGPGGR*G GGRYRGSAAAGSVHSAPGGCSP HAPGCA/CDVRG/AKPSHFHSG CQSG*GHQTSGGCPHLGLSPCS TCLCAGQLQQK/PGSSSGNL* GQGHSSGDLGSAPPHLVPG\PG PLTAGGHG/SLVGDSEWGSPAP GAVLGQNSSGPDQQRAGRWC SRAEKSGCYTAPPLG*LSAQFQ EEKASWVPPGSGQLED SHDPY TALPLAAPPWGTGTGCPPAWP RL/EPDDCGPRHLSPTCSTLPS WGGCAGS
14103	44471	A	14185	264	643	RCLRPGEGRSRQGRRSRTGRGK AEEGGARTRQQRRAALLPERS ASQPGPRDSPRWRRRRQTTRGR ARPASSGGT*GSSWLTAWPPR EP*RLRSASAQG/CRRQLQQR RRGLYQPHRPATCGPRAAD
14104	44472	A	14186	114	1039	QSQRLRPLADTPRRSNRPCSAA GLLFPQSFWSQELSQGAFLPPS SPCLHCLPGTAAASRHQSPRT RPSVQERRETHGLCAHRCEWR AGSPAHP*AHRFVSRAGSPA GP*AHRCISRAGTPARGPYSTR* VSEAGSPA/AVVSAPCSLSS*AC VTG\CSPAHSP*AHRCASRAASP EHTSREDAEQAP*MQGLCPVH QEQPPSRKSVVTSPHIPPETDCR LLPKNPCANKHQPTATGGRAV PPEVQHVPFRSGMTLGSHQPLA LQFQMQA TDAARLGLSPQGG SPPGPRSTLLGLCLSLFQLSLLR

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14105	44473	A	14187	1	1629	MIIYVENPKQSTSKCVRAYTFS KVAGHKAIEKRLEKLAVDPHR DRAQMLKVENVQQA WQQWIN KLPPARREDEDVKEIRWMIEEL RVSYFAQQLDHTGVDRGQPGA STWSASLMCSVTQPKLKTRKP GFLGLGERNCFSVYGAGRSW GRGLGSCGFWLPPRTRIRAADV CLARWGWRAHRVRVLAKNS RAESMLWSFHKAAIEAARTNII QAQTRVEAAQATERRIAADIDD SELKAPRDGRVQYRVAKPGEV LAAGGRVLNMVDLSDVYMTFF LPTEQAGTLKLGGEARLILDAA PDLRIPATISFVASVAQFTPQTV ETSDERLKL MFRVKARIPPELL QQHLEYVKTGLPGVAWSFLYSI NQTICLR LDSIEAKLQALEATC KSLEEKLDLVTNKQHSPIQVPM VAGSPLRTTQMCNKVR/CVNP* ATVVPPVPQPTTQQYQGLDA GATTRVPRSLLRSEGSQTQKSP SCGSHSQDNSSGGRKAVGARRD RWWLGAGKGPDCRGAKCGLP LSGQKCPTLDPYQVVGCTSKTG
14106	44474	A	14188	3	1010	GLQTQLVPLSSPVASLDNFSNL FGADLHVEKGQVPSSDQHLSQ RCHFPKAPPWSVCKALLPRSNP ATSLSGTSKPNSGGDFNSVTKS QPHCELNSFVL TGHSPVLWMM SEHDLADV VQI AVEDLSPDHP VQSCGT VV VLENHVV TDEDEP ALKRQRLEINCQDPSIKSFLYSI NQTICLR LDSIEAKLQALEATC KSLEEKLDLVTNKQHSPIQVPM VAGSPLGATQTCNKVRCVVPQ TTVILNNDQRN/DHCSQDGRPL EQQGTGFPGKMSLASQ*HGTNP TFPCHCAESHENKSTSLSQGT QHTLHLCGHRVEPGRHRPSSLR SGRAGWAMLNA
14107	44475	A	14189	1	1710	
14108	44476	A	14190	52	457	
14109	44477	C	14191	1	838	
14110	44478	A	14192	92	514	
14111	44479	B	14193	1	531	
14112	44480	A	14194	1628	2008	

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14113	44481	A	14195	2	1616	CPPRRRPRPRAPPHHRPPAAGARTAAAGDRSRHGPPASRVGTGGQQMRKTYCRNSEPSDLDQGGSRGGPRRQSKCVRNWWVLGLTDFKNEAADPHDSGAQLASPSGFRTRAAGGAACQSRAMRSYSSALGWSMGLGAVEQGVVLVGEAQAAQEPMEWVGSGSMVGCRSRAPPAGRQLRPDKKLSTAPVGRHRWRPSTPSAATGLGAKSLIARGQQGRLAAPNKTD FKARAVK KDKEGHYIMIKGLVQKESITIINIYAPNTGAPKFTKQLPLDLRNKTDSENTIIVGYFSTPLTALNRSSRKVNKETMDLNYTLEQMDLTDIYRTFYPTTAEYIFYSSSEHGTFSKTDRMIGHKTSLNKFKKIEIIPSTLPDHSGIKLEINSKKNLQNQTNTWKLNNLLSDHWVNNEIKMEILKFFKPNDNSDTTYQNLWDATAKAVLTGKFIALNAYIKKSERAQVDNLRSHLKELEK*EQTKPKPSRRKEIMKIRAELENEIKT/QKIQKINKSQSWFCEKINKIGRPLARLSKKGREKIQISSIRKK
14114	44482	A	14196	1097	1686	APRPLALRFGPLPSNSGAQLASPSGSCTGLQVELPANSCTVRWQVSALGWSMGP/GPGAGGSADQGGSGGTGAHGGVGRFRHGG AAGPEPCPMGEVAKAPARNRAQRQWAGTAGGPCASS/NSC*PGC*APYCPGWGQPAAPSAGPPSPRPPRTRAGPQAPWAAPVPAHASP\PHLPAS*GSPLRPGIQGSKTYQKSH
14115	44483	A	14197	647	1496	FLNLLSWQNLMCLGKKKRKQFKDYEKKVKELNEERDKYRKGSVYIYTFGKEPTLNKVLDACDGKFQAIDFITPGTQYFMGCRWSCLPVLHCALAGLSPWVVDGTRRPGAVGSAGRGGSGGTGAHGGVGRFRHGGQLQVRSPAHEVLRPSEKSSAAQWAGTAGGPCASSTADLGAKPLTARGGGPAG\PPSAGPPSPRPPRTRAGP/PSTVGSPG/SPPTPLPHLPAS*GSPASGLGQPRKGLPQCSGGLKGWLLKHRQSGCPGRGGAQSERGLRGLPARC

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14116	44484	A	14198	1	560	MAALLLVGASWL/LLLLVGASWLLARVLAW/TYAFYDNCHRLQCFQQ/PPKRNCF*GHLSLCGA/TEEDMRLMEDL/VPLFRDVQLWWLGSFYVPVL/SLVHPTFTAPVLQASGG*PGFTTTMGLSFKRAKWQRLA/SEGSVRLEMFEHISLMTLDSLQKCIFSFDSHCQMVSPGSCTTSRGPRIPGALPTGGARAPENGDPKEIE
14117	44485	A	14199	175	2225	RWSSVSFASGMPSAPCCWGHPQCPSAAQPTGPSWAGCRGLTM PNGQASPAS*VPPGAFPFCLIKQPLWENLMTGVGKFSREAATLEGPTLPTR/GVGPQCRQIADLPLE RTEGWRGD\GNPVRGVROKRKQLVAGETAASLLPCQASGESCSVP*QARGPPVLFLPQ\WGRRWAKGCASRSCF*PDFRPSHAVPGA REGAGLAAAPKRVARLSPAVPPACC\GLQGGSSSAAQAL*PQLSGPRLPREK*GA/PCWRGGPRCC PQNSAPETLEYVEPRGTGAPGT THTGLPSPSQGCRGAEGW/WGLPGLPGPRAGSSPQPRGRAWRPRARTPPPASWAAKGRGRPLAAGGLARPRDPGPGSGVAPAGSLRPHSSGRGWGRRRLRARPTGGNRGSEWPR/RPPGYPGARPGAPSVPRPQP/PAA*TRPLPVGCGARPFHPVPATV\VPHAGPP/SGMGRRRGRYPRPASARPAGRCGAGSAEPGRGTDKGGDGGEGKTKRGGG/LGGGAGAPKAAPGAAEPMGGRGAGAGGGGAIR*GGGGGGSGTTGSGSSSRPRPPRTRAPPETDPA PRPRPGLVRAAGGGAASGSGTGRGAEGCGVRAARGVPASLRAALARGAQARVLVSGPAPGWA EPRPAGGARGVGWGPVLAGPGRGPRGGAGRGPRALSRGCAA*AWTPGRGAGQRPGPSGRGSG

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14118	44486	A	14200	1	2850	MHPQERTAAATNAAIIITDGAA TQMGVTSTPAPGHPRDGYYQG KDVSLLAHTHSFKISAAIEAKTT WVGMCRWGCKVALDVTFDVH QGKPEGAGRNKQIPFIQDFPFAL RSEKRPSLPATISGKTLPLNTKT CPQLLQCKREGHSLQCLIWLQ MVPQLGRLAVGGCHSNAWFPS KKAVIWEKFKHNLSGLVSDKG GKRTGKGLGECLLMRMKMS ALEALTTFDSSLQHHFPRTPFVS ALEALNPGKPRQLVTPA
14119	44487	A	14201	1	1570	MQSATSDAGSAPKKQKKVMTL QEKSGIAWYFFTAQEWPNTPP KLRTCTESMGCCLLDCCCTGQ GDWTRVTLYCRYPFILFGTNA WVANFERPRMNANSLASPTG LSPYLRFGCLSCRLFYFKLTDL YKKTTLGSLPDAAMAFVNCHG AGGTVAVRTSRGHSRCHFGFG VSGTRYHYLTPQVWVERQQQK VDSLLGTQQMLEAQGREF/PGP CIPLPVPTNAPAAKTTPQPPSPD L*PPNYLFCLVDGHRPIC*EPKQ NKSDSFTSQA*SQDG*YCGCS/C RAPRPHGTSATIPMSSSCKRFQP SSPF/CKGPYHFRFLEERPLASRP SIHPSCGSYWLRLGCVAVGRTG /SRLNLQLHSASGLQALSKQR*R YCQSAGAGSPEPPRGGTR*CCR EAAPGCRAGTCPSAANLPSLR RK/PGTC*PQNPPGRCGSCGASA AVLAETPARIRRSFPRARQSCPR TWMAAGAPGSSRRQGTHVT* *SSTLEKQLDNPTATYFSVPTRK PVH*NQQKDL*VTG*LQIFHL
14120	44488	A	14202	11	356	VSGPPR*APWCPCLAAPTGSTS HGSTARSDSTACKVS/GGATCV/ SGCGPGLGVLGRGLSSTRSCCM PAG*CPSSKDTCEKSGGRTQPV PPFEWAAQDASLVRRCRILAH PCRGTS
14121	44489	C	14204	333	473	

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14122	44490	A	14205	344	1035	QSAAQWFWWPGRSASLGGA GMQPPSLASWPHPRSIRCLRAP AP*QFTNATDPRFRSAPRRSGQ QQPRGSSGPAALASPSRQPNR AGALRTGGAGWATALDTWSC PRTRRRAPMGSL*AAAQQCV TGATWPPPSAIA*QSAAQWFW WPGRSASLGGA GMQPPSLAS WPHPRSIRCLRAPPCSGPSASS AAVQVACCCSLACCGSPRPASQ GHLDTGTPITSPETCTTSLWSPQR RRAAGPPKVVDIPD*RGSRRLPS GRGAPNTTCIPYGGSPGAKWIE GCPAQ/RPSPPLHPAMRASAL LLMPFLQRRHRSATRLLLRPGS DCTGKK/GKGFLAGPETKRQKR LCPSPKTLGRALGQQEALPANV RC
14123	44491	A	14206	41	292	
14124	44492	C	14207	480	1637	
14125	44493	A	14208	3	410	SPPCGAPPPVFCAPAPRAPAPP RAPPLAEALPGFASAAGSAPA RSGPAGAG*GSRSRPRARASAS LAPASAGDHLGYPSATAAAAP ASRPWLWRPSLNAARLGDPAC GWQASQWAAGSA*RAGSQWA AGEARA
14126	44494	A	14209	1	1274	FFFFHPLRSLLGDLGLHSQERSA PEIKPGALESTWSQARGAALRL AEAR*RAAPAAGTACSAGGAA SSPR*GSRATRRRRRGPTAPSRA ATAPGRGAAASAAPAARPART ALMASARGPP\TAASPAQALTR SAPGHLPPMSELGAVTALCESC PVT/AAPRSGGGEAGGTLASEW GRTCRNYG/PAPGIWPRPPLSAA RPAAASPPARRIWSPPAPVHSA ASPIGLRVAAPCSSGSAVPLRSR RASPPCGAPPPVFCAPAAARAP APPRAPPLAEALPGFASAAAC RGKLRLALQGLGRSGSRSRQE GPAAGS*LRTGKSWSPPPGSA PLPLAQVLQALVEAGSRSPRA RASASLAPASAGDHLGYPSATA AAPASRPWLWRPSLNAARLG DPACGWQASQWAAGSA*RAGS QWAAGEARG
14127	44495	A	14210	2	335	

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14128	44496	A	14211	344	1062	TRAEVTQQKLSRFASPPVLRRL RSYVSPPAAPTADPRWRPSWST SLRWVVKPNVSA YRIPPRASNR GYRASDWKLDYA*WTGRLRIT SKGKTAYIKLEDKVSSELFQA PVEQYPGIAVETVTDSSRYFV\I RISDGTGRSAFIGIGFTDRGDAF DFNVSLQDHFkWVKQSESEISKE SQEMDARPKLDLGFKEGQTIKL CIGLCSKPGTTAIQLGPVLNGIG RTLRTDLRNKNDLEGTNL
14129	44497	A	14212	573	1017	TDQGVGSPHCPRFQGGPPRSR FQQRSPHSPDSSRG/PPHSPRFQ QGSPHTPDSSSG/PPYSPDYSSG HPTP/HTSQQGIPC*DGHWLPC GPVFLWSEAPHLNPLGLVWGQ PRAPALPGNSAESKLWPHDRPA RPETPGAGTAWAHQALRV
14130	44498	A	14213	707	836	
14131	44499	A	14214	724	927	SFMDFRFVLLFFHLVPNPK*RP VS/SPPGSKLLVPPWGPKT\VPVP HPSPPPPAHGEPGLPPPPPPPLPH
14132	44500	A	14215	29	157	
14133	44501	A	14216	1	363	
14134	44502	A	14217	770	952	
14135	44503	A	14218	1053	1995	KSSEPDLSHSFIFCSNFPSSSL KRPHVFQSSILACVFCITADSSRA PCVLRVCDGFAGLTRSSAPSSK EKPCGFSLEFTPLAVSFPQAAL CSLGTVSCLRPRLTPSWCEP VLLAGAVCPGLPCAIGCPWA GEEGCPGATSQLDQVSWPSLQE APEVLWPCLDSWGWFWAPSTV IPLMASPRFGFMGRSQQPVLIN HLIKEPKAKFSNKNHSIRCCQG QRKWRRGNAAGMCCQPQIPGK GEVKTEFQPVSNRSVNYGCTM HFQETLWTPRLGLGDGDSNNN NNNNNNNRITANPGKEAEKPE HPHLLVKM
14136	44504	A	14219	482	833	THQGARGCTHARVSVREMRT RGRWATGMRVPAPCSSVHTTA VQRQQVADQLQTTAELSME/IL N/KWDQDPEAFVRKVATSYET WIS*YYPEDKAQSKQWLPRSGS GATLYSATNQYP
14137	44505	A	14220	195	367	

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14138	44506	A	14221	989	2210	LLVSCAILLSVSFLHSSSFVRSRS NRDSPACVDATYRGCSQGE VCGEACSCFPDLNQPVHAG EGVLPCSGWEDTFGKNTCLVS YQQIPNKRPPCTCEECGKAFGQ RSHLVQHTSEKLYACQECGCTF SNNSSLVKHWHVHTGEKPYMC GHCCKCFRESSSLAKHQRVHT GEKPYVC/GESTHLVQHW*FHT GEKPFAC/HR/CSKAFADFSALL ACHGTYTGERPYECRVCKAFS PSLSLAHIRCHTGEKLYACQE CGKAFSHSSSLKHQQVHTECG KAFSQGSYLTQHLKIHSGEKPYI RGEHPYACGKCGKTFSHSKFLT QHEQVRMGEKPFMCGDCGRA MQTSSLALHQRTHNGEKPYKW NECGKSCIQMSTLLEYQNLPE KGSKDPTDATVHSPVMD
14139	44507	A	14222	1	245	PPFRKQQAQHRNKTVLVSRSP VPVTVPE/PSA*RSTPEGPRRAG CDPRP*PCPAGPELPAQMKVLA IEQLLSLHFKKALLF
14140	44508	A	14223	477	947	LCSLSSLPPPPPPPPPPPPPPPP PFPPPSPVPLPPSPRSPVSPPPH SFQGRSPSELGSSAEPWLRPGT WV*/PPPLTFSQQEAASSAQK*N CPGESAPQVPVTVPERQPDAA NHSLLLPGQQCFWCQGHPPY WMGPVDASSSGFLSQSFY
14141	44509	B	14224	438	1437	

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14142	44510	A	14225	584	2866	WHFAKLSRNTQDHTRPTLGAA QAVPATGQPAAPGPAGAGPEW VPFLAVYKEQLVRNDSVLKVFF FPPIFYREGWVCCSVVESHLE GFVWLFSLQL*PPKLRSLFSLSY CLSP\SDIEISRGQTPKAVDVLA KEIGLLADEIEIYGKILVSSAGF A*VVWEIL*NSLSPPELRITPTPL GEGKSTVTIGLVQAVSLGLCPS WQLYLVTALQPGQQSETLFLK INK*KDILFL*FNLHLTGDIHVVI SCELSKFMDN*LLCGLIFVLCFF RGIILVTLCLFLLKLLTFLLNH *KLGINKTDPIRTMPDTHQVAG PYLST\DD*SVLFQ*SPAPCGNG HPTGTVADHYLCLGW/YQAQF DIAVASEIMAVLALDLSLGREV PRG*PLPG*YFVRNLMFFSHLPQ IDLGFHASVCLLGF*FAFSL*G TPVVFVHAGPFAADRDLCPYQFL LCQTHIYKIHVIMAEYFQRYKL MMYAKQTSPLCDLEQAISLSGC VPCRHSCLKNEKFSCGTC*QYL PKLSLPNSDPLTLPFSADYGKFK ESNHANHSGDCQNLPLFLEDNS TYSTCFPTVTEAGFGADIGMEK FFNIKCRDVVLSFRSVV*AFLLL AV*LGRFGGRQYTGWVLLFS FLQNIQLVADGV*MVSLSLKT* LNGYRCKTTNIFFTRTDTRAEID LVCELAKRAGAFDAVPCYHWS VGGKGSVDLARA VREAASKRS
14143	44511	A	14226	3	587	YPASAGLMLQNFVIGLRYHF AIHSPAAGLLDGLHAVAAIQG ITKIETTPNHQRAHAHTLLTQ QAHLPSPHLFNLPLTLCLMHC PTAIPHCFAADARTWVNLPTSSLI GHKKENLKEFISGSLIVHEILEE VLQAEQDFQPFTRVTVHWGKG NDQTFRGLLDTGSELTLIPGDP KHHYGPPVKVGA YGAQLL

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14144	44512	A	14227	2	1256	CHCGPP/VKVEAYGSQVLKGVLAQVQLTVGPGPRTHPVVIFPVPECIIGIDMLSSRQNPHTGSLTRVWTIMVRKAKWKPLELPLPRKIVNQKQYHIPEGIVEISATIKDLKDAGVVIPTTSPFNSPIWPVQKTDGSRMTVG YCKLNQVVTPIAAAVPDVVSLLEQINTPPGTWYAAIDLANDFFPIPVHKAHQKQFAFRWQGRQYTFTVLPQGRWEINMTKIQQPSTSVKFLGVQWCGACQDIPSKVKDKLLHLVPPTTK/EAQCLSGFRREHIPHLPIYRVSRKAANFEWSPEQEALQQVQAAVQAAWPLGPYDPADPMVLEVSVADRDADWSCWQASI/GHKVGHAQQHSIIKWKWYIRDWARADPEGTTKGQGQRRWWQLAERQDSRDREA AIGERQETA VGKTARDGEAVCD
14145	44513	A	14228	155	531	GNLWSVDLRPGTPLRQNFRTIRQQHSRFTKNHCSQTPLLI PRQTGSGVDLSKLQQTCS*GSCLVCTIDLANAFFSIPVHKA/HQKQFAFSWQ\YTFTVLPRLTWLQPC*V PNLPA AETNTEPSNGT
14146	44514	A	14229	1	518	MTVDYCKLNQVVIPIAAAVSDVVSLEQINTSPGTWYAAIDLANAFFSIPVHKAQQKQFAFSWQQQYTFTVLPQWYINSPALCHNLIRRDLCFSLPLDITLVHYIDIMLIGSTIKWVHSS/DSIIKWKWYVHDWARAGPEGTTNGLAG*S GTCKKHEWKTGDKGIRGRG
14147	44515	A	14230	281	1140	VRVLSPVEKELKLWKNT HKLLSYPTVGAAVTQLQNL TAMGVIGSHGARGQVVALNRQRQGDLPFTRVTVHWGKG/NMQIFGGLLDTGSELTLP GDPKHHCGPPVKVGAYGGQVINGVLAQVQITVGPQTHPVVISPVPECIIGIDILSSWQNP HIGSLTGIMVGKAKWKQLELPLPRKIVNQKPYCIPGGTVEISATIKDLKDAGVVIPTTSLFNSPIWPVQKTDGSRMTVG YRRLNQVVTPIAAAVPDVVSLLEQINTSPGTWYAAIDMANAFFSIPVH
14148	44516	B	14231	1	1521	
14149	44517	A	14232	3	202	
14150	44518	A	14233	2	367	

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14151	44519	A	14234	1	553	MTVDYCKLNQVVIPIAAAVSD VVSLLSEQINTSPGTWYAAIDLA NAFFSIPVHKAQQKQFAFSWQG QQYTFTVLPQWYINSPALCHNL IRRDLCFSLPLDITLVHYIDDI MLIG\PRQLLACY/WALVETEHL TISHQVTMRPELPIMNWVLFDP SSHKVGCAQQHSIHKWKWYVH DWARAGPEGT
14152	44520	A	14235	3	728	
14153	44521	A	14236	1	635	
14154	44522	A	14237	3	266	
14155	44523	A	14238	1	1245	
14156	44524	A	14239	2	837	CHCGPP/VKVEAYGSQVLKGV AQVQLTVGPVGPRTHPVVFIPV PECIIGIDMLSSRQNPHTGSLTG RVWTIMVRKAKWKPLELPLPR KIVNQKQYHIPEGIVEISATIKD LKDAGVVIPTTSPFNSPIWPVQK TDGSRMTVGYCKLNQVVTPI AAAVPDVVSLLSEQINTPPGTWY AAIDLANDFFPIPVHKAHQKQF AFRWQGRQYTFTVLPQGRWEI NMTKIQGPSTSVKFLGVQWCG ACQDIPSKVKDKLLHLVPPTTK K/EAQCLSGFRREHIPHL
14157	44525	A	14240	1	533	
14158	44526	A	14241	1	1043	MTVDYHKLQNQVVTPIAAAVPD VVSFIEQINTSPGIWYAAIDLAN VFFSIPVHKAHQKQSVFCWQG QEYTFTVLPQVHINCPALCHNPI LRDFDHFSLPQDITLVHYIDDI LIG\PV*NMLLHLVPPTTKKETQ HLEVLFQFWRQHPIHLATPSSP NGPMNKVTMMA/ANVGAWD QKHGLPLTKANLVMAIGECSV/ SPAAETNTEPSIWHHSSGQDSQ VQESKGGNGSGTTHHHP**STS KIFASCSDITFCWPRGLSSRGR NAATTRHNNFIKPEVKIAFWT LWDPPTFKSTG*ERS*SVGWW D*HELPR*NQSTTPQGSVSIIPH GQPPHQLFGVAKARTFGIT
14159	44527	A	14242	1	336	
14160	44528	A	14243	3	1885	
14161	44529	B	14244	1	1423	

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14162	44530	A	14245	1	1361	MIISIDA EKAFDKIQQPFMLKTL SKLEETASPSPVVATYTPQPML PSAFPP LSE E INPVL PETTVMAS PEAVTRQDNVDSPQKPPPTPMF ASRPITRLKPRRAPSEEGIQRLK KIGMVEWISHFRPTLSMEGPE HILLTNTLLNRYVKAAPASLKS PLTALLFMSDLTVGTTFSQLQN LNTMGIFGSSCDRSQVAALNHQ RQVPECKIVIDILNIWRIPHIGSL TGRVREIMVGKAKWKPLEQPP PRKIVIQKQYHIPGAITEISATIE DLKETGVVILTTS PFKSSIWPLQ KTDGSRWMTVNYHKL NQVET PIAAAVPDVVS LLEQINTSPGT WYAAIDLNVFFSIPVYKAHQK QFAFSWQQQQYTFTFLPQGYIN SPDITLVHYIDDIMLIGSSEQEV ANTLDLLPARVASWGV PYDQL T/GGRED*GLLHRWSCRICRHH PQGSWIQES
14163	44531	A	14246	1	1795	MRKCGK PQFKLGQTNKANSRI QEELIHSKSLIEQEGEKPVQFSA FHRMWQPADSQCDIIDSADIWA DPLVRHREIITGSGGINRRRTRG GRGRGGEAAGGAENCGSREER ERAGVGTA VTQLQNLNTIGIIGS RGGRGQVA AINHQRQGGH SYC KGQQKQNSNQNSVTHVELWH WLINHSVPRSEIDRKPTTFLNL YKQKTSRDLWPFTRVTLHRGK RNDQTFQGLLDTGSELM LIPED TKHHCGPPVKVEAYGGQVING VLAQIQLTVGPVGS GTHPVVIY PVPECIIGIGILSSWQNPHIGSLT SRKTDGSRWMTVHYHKL NQM VTPIAAAIPDVVS LLEQVNTSPG SWYAAIDLANAFFIPVHKAHQ KQFAFSWQQQQYTFTVLPQGE TLVNFSLPQDITLFHYIDDIMQI GSSDQEVANTLDLLPRKSTTPS G/LYGFWRQHIS/HLG LLLTPIY* VTQKAA/SFEWGLEQE KALQQ VQATVQASLPLGVYDPADPMV IEM/SLSDPSSHKVGCAQQHSII KWKRYVCDQA*ASPEGTS*LY CTSFIMEKEEVC/LSLEQTLTD MGLPILHAMLLWIHLWIHGLPY PSSWYSTQQCL

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14164	44532	A	14247	55	1241	NRFVRAAPASLKR SAGIGLLCM PDLTVGIVVTQLK NLNAMGITG SELTLP GDPK*HFGPPVKV GAF GGEIVNKYLAQLGL TDDPVGPR THPVAIFPVPECI IGIDILSSLQNP HIGSLTGRVRAIMK GKAIMKGY YEGKGKAKWKILEL PLPRKIIN QKQYRIPGGIVEM SATIEELKY AGVVIPIPTTFPLN SPIWPVRKT DGCWRMTVDYCEL NQVVTPT AATVPDVSLSLEQ INTSPGTWY ADIDLANAVFSIPV HKAHQKQF AFSWQGGQYTFTV LPQG\WTV NSPALGHNLI GRDLDRFSFPRDI TLLVHYVDDIM LIGSSEQEVAN ALDLLVFS DHLAIKWVMHSSIA SSSGSGICVIRL KKVLKAQPAP MASWGVLYDQL TEEEKIRA
14165	44533	B	14248	1	346	
14166	44534	A	14249	485	717	
14167	44535	A	14250	1	345	
14168	44536	A	14251	300	689	TKRAPCSPAAGSR GRARSLALL TLYHGHYPALPPG PTPAQQPGR GLAEAAEPRGSE GGNGSNPCG RA*DGRSRREG RGRLGGWRPC CEPQPWRQAHD PAGPDRVDGG ERRGAGVLRGQD GQDEKKKPK

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14169	44537	A	14252	1	2430	MAVLQPSRHRLRPQLGLEPDN WHSQQDEVSSVATARA VVPSG RGAAWMGPPSGNIGGSGLV SHE CGEGTGAAGSTQLQEGMHFCR QSRWAFALTALCEVYTQSLQDT VQWLQLCQWSAQQGDDHTLIE WLMGATWTVWNDAREIPETG TGQDAWLCGSWGVDDQRPHV ELAIHCSPTNVQRVLALVDTGA DCSLVFGNPVRKPDGTWQMTV DDWELNKVTPPLHAAVPSIMD LTDHLMELGQYHFVDYVHSP TICRGLVAMELAAWKCPKGVL LFHYIDDIMLTSDSLADLKVAV PLLWQH LAACGWAINKSKVQ WPGLSAKFLGVIWLSKTKAIP E AIIEKIQAYPRPTTMKQLQTFVG LLEYWRPFVPHLAQMIKPLYGL SKKGATWDWDNEAGTDLLAA KWA IQQTQALQVIDQGCPFELD VHVTTDGFGWVLWQRM ECFR TPVGFWSQLWKGAELQYSLIQ KELAAAY AALQAYETVTDWA TVIVQMSYPIVGWTGTAQT TTL AKRGAYLEQQSMLTTTPLAAE LQEALGP IVLMEDKAMGPEAPL DPEPSLLKKGYP LVPDGA WYT DGSSQGA AAAWTAVAIQP/ITD TI*FDTGCGQSTQWAE LRVVE\ MDILEACQKCPACAQAYLRQR QLPNVTQQVTVGQMPLTRWQI DYAEPLPKLQGYTYALMAADI
14170	44538	A	14253	2	239	
14171	44539	A	14254	3	211	VVYYSPNEVKVVAEGFDSANG INISPDDKYGPL*NIFLQLWC WPNSLLCFLCQCENSFLDIYGIL
14172	44540	B	14255	13	87	
14173	44541	A	14256	42	854	VLVFLTAALFILPTFSNSMMILQ VSGGPWT/VILRRGVLLGVAPP PSLPALAPENSVYQERQECYAFN GTQRVVDGLIYNREEYVHFDS AVGEFLAVMELGRPIGEYFNSQ KDFMERKRADQLPDCRDPLMP D*GVWISPLGQQVPNLTAQKTL QHLP SKKEPQQHHDLLVYHVT DFYPDSIQVRCFLNGQEETAGV VSTNLIRNGDWT FQILEMLEMT PQQDRT*AGVQLLEVTLNLSLF FLEAQSDSVQSKMLTGARGLFI NYLQLNLCTP

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14174	44542	A	14257	3	571	QGRATPENYLFQGRQECYAFN GTQRFLERYIYNREEFARFDS VGEFRAVTELGRPAAEYWNSQ KDILEEKRAVPDRMCRHNYEL GGPMTLQRRVQPRVNVSPSKK GPLQHNNLLVCHVTDFYPGSIQ VRWFLNGQEETAGV\VVSTNLIL NGDWTFQIVVMLEMTQP/QGE DVYTCQVEHTSLDSPVTVEW
14175	44543	A	14258	1	1677	
14176	44544	A	14259	2	430	
14177	44545	A	14260	821	1428	QVTDVQDFPLKCKIQWRRTVR GDLQ/PFTRVTVHWGKGNDQT FQGLDGTGSELTLPDPRHC GPPVKIGAYGGQIINGVLAQVQ LTVDAVGPWTHPVV/I/SPVPECI IGIDILSSWQ/NSHIGSLTGRVRA TMVGKAKWKPLELPLPRKIVN QKQYHIPGGIAEIGATIKDLKDT G\VIPTSPFNSPI*PMQKTDGSW RMTVDYL
14178	44546	A	14261	507	910	
14179	44547	A	14262	1	2898	
14180	44548	A	14263	1	2580	
14181	44549	B	14264	159	2657	
14182	44550	A	14265	142	377	NHLLRRQQWQTPFPSPWS/SPR SSSDCCGSSSENFKPVDSLGLSV GVGPTEPDHLDPWLPFPQSGE RFCLAGVPGATG
14183	44551	A	14266	363	638	EVWKESGWHLAGAPLGQSFQ RKEQAVIFAVLQPLLVIKQTGS GVDLQQTPAHLQQRGLSGCLQ SLCSLTSS*PQRHPQNSSLVSNC VVS
14184	44552	B	14267	1	2424	
14185	44553	B	14268	446	623	
14186	44554	A	14269	245	690	APSRSTWGSSTAARRNLKTR KLRTPRTPPHQKPRNPHHGPPR TPSG*TPRNPDRPPGPVQVGQ PGCWAPSQGRGWGLGC*RE EVPGGGHAGRHSTPVGG/DFFL QAGPWPPDASLPTNPFVLRGAS TPPHPLSENNKDKFLLQK
14187	44555	A	14270	223	365	

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14188	44556	A	14271	1	687	MSEYIRVTEDENDIEPIPSDD GTVLLSTVTAQFPACGLRCRN PVSQCMRGVRLVEGILHAPDA GWRNPVYVVNYPKDNKRKMV LGLPWKTTEQDLKEYCSTFGD VLMVRQSQDEPLRSRKVFVGR RTEDMTEDELWEFFSQYGDVM DVFVPKPFRAFAFVPFADDQIA RSLCGEDSMKGISVHISNAEPK RNSNRQ/LRSGRFGGNPGGFGN QGGFESYQRCERKAV
14189	44557	A	14272	1	833	
14190	44558	A	14273	3	447	RGTAGGQPNGPALAQSP*WC RLGSGGT*GKSPGTSQGRALPW CSC/SVSTWATAAPGSQQRASP CSWAQPGPLASRLMLPRLR* GHLGHLAWLQLFAAPCPVIHV AVMWSLLGIALRKVHGDWAPL AILSLVVCASNKLNKKKKK
14191	44559	A	14274	988	1803	RAARVPRAPLEAVAHRWASAS EDDGTVLLSTVTAQFPACGLR CRNPVSQCMRGVRLVEGILHAP DAGWRNPVYVVNFGDVLVVR QSQDEPLRSRKVFVGRRTEDM TEDELWEFFSQYGDVMDVFP KPFRAFAFVPFADDQIARSLCG EDSMKGISVHISNAEPKRNSNR Q/LRSGRFGGNPGGRLOQTRY PAPAPGSPGRAQGLGAG*SRPS GSWLSGHLQRPEQSVGRAPAA PRHAVRRSLRRLAALCRRTAR CRAQLHVSPQRRRH
14192	44560	A	14275	3	184	
14193	44561	A	14276	1	352	KAAMVRFKHYLLCELVSDDP RCRLSLDDRVLSSLVRDTIARV HGTFGAAAC\SIGFAGTIRTCQK FLIQYNRRQLLILLQNCTDEGER EAIQKSVTRSCLL*EEEESC EAAKAME
14194	44562	A	14277	1	456	PTRAVEAAMVRFMHRYLLCEQ VCDDLRCRLSLDDRVLSSLVRD TIARVHGTFCIAIALALARA LNEEGNPEGWRDVAGASAGGR KKGHECPSPCTVFCTL/RYPNA YTVIGLLRCKKELYQVWWSVL YLMTYLENKGHRYPCFFNTLH
14195	44563	B	14278	34	267	

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14196	44564	A	14279	3	395	SAEVGAAETTLTELRRTVQSLEI DLDSMRNLKASLENSL\GILLHL ESELAQTRAEGQRQAQYEAL LNIKVKLEAEIATYRRLLLEDGE DFNLGDALDSSNSMQTIQKTTT RRIVDGKVVSETNDTKVLRH
14197	44565	A	14280	2	1044	SSQMPSPQEGMCGKACTPALS QADSLCPLLRLASEVEGYWQM ACAEPYVQSEMNDHLSVWSLQ HGSTTLASMSFTTCSAFTNYWS PGSVQVPSYGTQPVSHAASVY AGLGGSGSRISVSHFTSF\GGLA GMGGIQNEKETMQSLRDRLAS YLDRVRGLETENWKLESKIQEH LEKNRL*LETEIEALKKELLFM KKNNEEEAKGLQAQIASSGLTV EVDAPKS/QDLAKNMADSRAQ YDKLARKNREELDKYWSQQIE ESTRVVTTQSAKVGAAEMTLT ELRHRVQSLEIDL DSTRNLKAS LENSLREVEARYALQMEPSLLF SKIIFGRVWEISYLHVFEKGQV
14198	44566	B	14281	247	857	

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14199	44567	A	14282	1	2104	LRGSELAGGVAAPDPSSRARAP GRGQGSEPPRRS*GRGRAPPRA HTPLDDFPPGRAALSPGRGLSS RRPDPGSAGRPLLLCLRPLHSP PPPRGCQAPAFQSLPSFHLALRL RSSGEEKLWGPRRAPAAP*SQR RKPDPARPGLAAAVPLRPV*AS D*GAAQVPPPSPLRDGGQPGGR EGVGRRTPHRAAAWLLGE*AA DAAAFHWGGRPPAAPARLLP GAPHHREDRVHHQPRGHPLQH QSPGDPTPAGEQHASRH*LCRN PETQKL RH*TSERRDGHREEEH TG TAGVPRSRPATQRP HAVPAG GLQPHRMLPALSSGAASGGEA EHGQLSGRGREEDGPVWPQLP AGLQGHFRGESPRWPPCLGDGS EN*PGPVQAEFSGG*DPAVSESE DNQPRSRQFLRLQREEKAKPD QRFTYLPANVPIIKTEPTDDYEP APTCG/RGEPGVKSSPKTILQPA ARDATRPQLLPRGRLPALSAEK HPDASSPWREPQAPRPF SRCLH QGRCQPGPLSPRTPAAGR RGPR RPG\VPRPVATHPGSPGQPPPAL LPQQ*MK*YEMTSPARAPTSC HIGALSSAGVC*LQQT KTFE*IN *THTWYHSEPPTD*MPGA EH*Y VQRLALQQEGKQGGRETTVSP GGEVIS*QKGGGRAEHGRPTV QGP/SHGN GPHAV*PHAQPFWH PWGSILEVPYLTRPSGHHRIEH
14200	44568	B	14283	41	4224	
14201	44569	B	14284	1	1332	
14202	44570	B	14285	140	215	
14203	44571	A	14286	234	657	VQQPGRGLDLSTDGPGGRSQV GLIWSCCLH*AASGEPGGRCP GS/GAPGPAGSALEFRARDGVP GVGGPSWESHSPAAATPPPAEC RPGPTPSPAPGEAAPEDREDG AAPGRAEPASIVAPADGSQGG VLATQAGALGA

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14204	44572	A	14287	134	789	PDSSQAPSRNSTRPAASTRKSSS PPAARS\AGNELGSSRGDADPPP QNPTGPAPQSAEVPRCD/SSSA WASNGSSISPSFFSLRPWPSST/S KVPGAGHHTPPEGAGGASAR\S SSLAPSAGAPVPS\A*RSQLGTW LSVLRPRSL*QSRVRSPSSHVSS PGSMQAPNSPSSFQPGMNGAWI WWL*THIPLARWPGPPGILVITC PTVTWIKWSFICSFHPT
14205	44573	A	14288	465	1541	GPPKRKLISNFSKVSQYKINVQ KS*AFLYSKK/QTESQIMSELPF TIASKRIKYLGIQLTRDMKDLF KENYKPLLNEIKEDTNIWKNIP CSWIGRINIVKIAILPKVIYRFNA IPIKLPMTSFTELEKTTLKFIWN QKRAHIAKSILSQKNKAGGITLP DLNLYYKATVTKTAWYWYQN RDIDQWNRTEPSEIIPHIYNHLIF DKPDKNKQWGNDSL FNKWCW ENWLSICRRLKLDPFLTPYKKIN SRWIKDLNVRPKTIKTLEENLG NTIEDIGMGKDFMTKTPKAMK TKAKIEKWDLIKLKSFACTAKET TIRSFGEQKSHTLVRLVSD HSQSFEAWLQFLGDTFRGTQKL RDS
14206	44574	A	14289	1921	3199	GYLAAGQVTSRIHTGRRHFSGP ARCPVSCRRPGC*PQPAVRP SG*HCRKTAPSHGPSIWQTR**P GSWPNLRPG*GWRWLRAQPRG RGIPVGCGRNLQLHPTKNPGSH *GSGSPWQCPGVLL*ASGRQPG SPSGGCT*SSGKAGLEPQWHPA IPGHCRNKPAAPASWERAPRPR AHALACGWWRYSSC*SWRS*S SPETPGAQV*CHRPCAAWW RCHS**TAQFL*D*FS*FLQTIGE PCICPKPISVPH*PMKQSHRGIG GCLQYSSHPGIESSLGMSRGF/D RRDL*TLQIGS*RHPRAGPEGA AL*CLAGESSLRTPSAPCPGSPH TPGSSASGNTSPV**ETGCGSRQ GSARLVLESLLSR**CLSGPSRP SCLLRGISWQCGTAGRLSSSGPP AASGAGADAAPGGFRLPCLEF GTV
14207	44575	A	14290	3	626	

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14208	44576	A	14291	1	1065	MRGSCERSGEDEEQKEEAMVA CGRLSGVPEAEQGPEANWDS LETEGTDGLGELVRDTLYLRSC RAHSVVPISCFLRQGS AQELNL RHRGLGPQGARALASSLSSNPY VKRLDLRDNLGCGAGAEALAG AL/QQKQQHP*CGPVGEPAGSG RSPGP/RVPPSQ/CNQAMRKM LSGNGLLEEQAQHLAELLAH TDLKSLDLSYNQLNDQAGPAPS LRAFPQANIFLKVLDISYNGFG DPGASAVGEALKANNVLEELN MSNNRISAMGALSGLGLRVN QTLRILVLCVRVSQVSRNPMRS EGCFGLLSVQDNPALELLD FSDIQVNAEFDGLASSVRGILPG LGIKDWRLQSGV
14209	44577	A	14292	1	416	
14210	44578	A	14293	2	384	ELWVVT SFMAYGSAKDLICTH FMDGMNELAIAIYLQGV LKAL DYIHHMGYVHR/DLQGYDAKS DIYSVGITACELANGHV PFKDM PATQMLLEKLN GTVPCLLD TST IPAEELTMSPSRSVANSGLMTA
14211	44579	C	14294	142	474	
14212	44580	A	14295	1	1470	
14213	44581	C	14296	91	471	
14214	44582	C	14297	195	480	
14215	44583	A	14298	121	1130	SRSTQYELMSFLTNDASSESIAS FSKQEVMS SFLPEGGWYELLTV IGKGFEDLMTVNLARYKPTGE YVTVRRINLEACSNE MVTF LQG ELHVYKLFNHPNIVPYRATFIA DNELWVVT SFMAYGSAKDLIC THFMDGMNELAIAIYLQGV LK ALDYIHHMGYVHR SVKASHILI SVDGKVYLSGLRSNL SMISHGQ RQRVVHDFPKYSVKVLPW LSP EVLQQNLQGYDAKS DIYSVGIT ACELANGHV PFKDMPATQP/M VLVLSSPDAARETERHSALPVG YQHHPR*GADHEPFALSGQLW PE*QPDHQHPALQR*LALPPLP PNLLPPLPLC
14216	44584	A	14299	304	412	
14217	44585	A	14300	2	350	
14218	44586	A	14301	191	299	HRPATAVLHVPTSPSPGSRPS *PPPAALLWTPA

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14219	44587	A	14302	537	5523	LARYYKFMHQDRQGVARNLL CQKEKRR*YTTKCEDNTCHWT GRTSS*PRSV/SNLNSQCGPRLW PPVTIIRQANIKTGEKAH*TSKL LPPVQLKFPARDDTLWPWGYIP* QLRRPSPR*SILSMLPRKVVPCL *QKP*TVCWKF*EPLSYIHSLV LKMMIPMPMTLLGA*CLTQAL K*SRMERKKGRAAQRSSTLGC QSPRGSPGGGPGPPGPPGAGKQ QSNSVQTSRLLARTLI*SFSSST VKDKELARNTAP
14220	44588	A	14303	2868	3095	PGWAGGLFGPSAGMRAWATK PSLTPPAPAGQRC PQGHRG*SG PGIYAVQPPSVPAWAAHATTQ ARLCHPRSPPLR
14221	44589	A	14304	693	821	SDRQT*RQEKRLTRRQSCCLPC N*SFQPETTFLHGPDTFHDN
14222	44590	A	14305	338	645	
14223	44591	B	14306	181	480	
14224	44592	A	14307	155	543	
14225	44593	B	14308	1	1260	

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14226	44594	A	14309	1	2025	VINIINAAQESSMPVTEALDRV LEILRTTELYSPQFGAKDDDPH ANDLVGGLMSDTGLEIHKDGEE EGESRTAQQYPGLSESTRQPWR RSRTPRTTWGWKATEQQCPDF PPPGPHPHLELLIFHCEGQGTGQ KHSTSYPTLMSEKRGLMNVFF AKYTGPMARKSSGLTPSLLHLY CADPLHSKPLFNCPPTTSKTEI LGSCNCSPSESVRGAEKGDQEL LANIKQAEKHEKNHPEVTAM ALTDIDLQLQFSMSQPEALLL AAGPADHLLLQLYSGHLQSAT GIYGEGRASSATLEDLESQYQE LAVALDSSSTIISQLTENINSLVH TLKEEKHEIHQVQKLGRNLFKL KNQTAEPLAPEPPARPSKVEQL QDET NHLRKELESVGRQLQAE VENNQMLSLLNRRQEERLQEQ EGWQEEQERLLDKNNENKSAL QLEQQVKELKL\ENLEATSQ*K QQL/TAQLSLMALPGEGDGGG HLDSEQEAPRPMNIPGDLESR EAMVAFFNSAGANAQEEQRCV CQPLAHPVASSQKKPEVAAPAP ETGGESVCGETHQALQGAMEK LQUESTSARGQCQRRSTGRGGHR QAGPGPGGDEEMLCTCTQVSS AGRGMGMLTVVLVVSLLMMLS ASFSTWCMRSISSCHCAYSAS SISVFWFPREYILASGSEMMNS
14227	44595	A	14310	3	564	SLRVSLKAVVDRAGSRILSYIA GLGVDLGFGGGSRVAGGIADL GRSGGGKATRSRRGSRAGGGR LRSRHHEEALQLRETPGPGAPE\ PMDQEYAGPGYDIRDWELRKI HRAAIKGAAG/VWSAAMTRR FRDL DARDRKDRTVLHLTCAH GRVEVVTLLLSRRCQ\IDICD\N* NRTPLMKAVHCQEEA
14228	44596	A	14311	515	778	GQAQGTGDREGAVLFTARAPD QCRP*SCSSSRPTASSCPLGHSC SPGPLCTHLPLOGPPQAPTVP ATATCWFSWNQCRCRAVSSYP
14229	44597	A	14312	411	608	EAEIP*TGLPGHSRPPGPLCTHL PLQGPLGAAAWVPEAGLGQVP TEAAGAARAGCSAHKPWKRRK
14230	44598	A	14313	2	338	
14231	44599	A	14314	1	390	

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14232	44600	A	14315	237	488	PWKTLDSSEAEILRGVSESSAV TLHCMEGQAVGPRQVKRIVHC *ASSA*NPHAMLLLQNR*LALC TSVPQGA AVLCCGGWDPGN
14233	44601	A	14316	358	616	
14234	44602	A	14317	13	1155	IKLPPPGCRRRGGRHRRHRYRG RAEPLAPRRRRRLPPAPEQPRARP PASRFLKNTMSNGYEDHMAED CRGDIGRTNLIVNYLPQNMTQD ELRSLFSSIGEVESEAKLIRDKVP GHS LGYGFVNYVTAKDAERAI NTLNG\LR LQSKTIKVSYPSS EVIKDANLYISGLPRTMTQKDV EDMF\SRFGRIINSRVLVDQTTG LSRGVAFIRFDKRSEAEAEITSF NGHKPPGSSEPITVKFAANPNQ NKNVALLSQLYHSPARRFGGP VHHQAQRFRFSPMGVDHMSG SGVNVPGNASSGWCIFIYNLGQ DADEGILWQMFGPFGAVTNVK VIRDFNTNKCKGFGFVTMTNY EEAAMAIASLNGYRLGDKILQV SFKTNKSHK

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14235	44603	A	14318	1	2340	MFVWRNVEGHSAAVFSWYSIP FLTPPCSHTRPSNLPVTQWPTR ENNLPWSWQPLLMSVHQAQSLS ALRKEQDSSSEKDGRSPNKSDK DHIRWPMGAHDLQQAAPGPG GAHQGHPNQDNRTVSQMLSER WYTLGPNEMQKYNLAFQNVE ARIRYVIVRGNEQGFFRMHHLR GVSSLQLGRRRPGPGTYRLEV DMITIDARYRCSGLRSPDPDH LKSVDLHRNEHFFLQKARWEIH LVLQATPSQIQLLHVAFVLAKQ PLRCRKQTLFLISVVGTKENNV ASEGRNPVRPLRGHRWLPASPP AAEHFAGGADRKSRLSRAPRSA ATATPANEQRAVADVQWAR ARGGRVRAAGRSGSCALRRSR CRRRRRRHRRHRYRGRAEPLA PRRAASGQPGKLRARRGINCNA SSIPMLQVVRIKSISKHCQMAR VAGEGSLPLSHAQLTHCVFGN KQVQRTIAYLPPQQQGVQGFL KNTMSNGYEDHMAEDCRGDIG RTNLIVNYLPQNMTQDELRSF SSIGEVEAKLIRDKVAVGLLSL CVPIRNVEIVASTSWWSLPLAP YVPRGIRRSQPSTLMDDLSCRS HQAAAPFTASVLLYISGRVKAH TAAQGFNHIPEEGVSQEAGSG WSQAWKDGWLTNVFMFSCTG HSLGYGFVNYVTAKDAERAIN TLNGLR/PPVKNH*GRPLQLGFL
14236	44604	A	14319	701	1050	LIVHFCLQVGCGVGNTVPILQ TN/NTNSEYDPSRCFAFVHDL DEEKSYVPKSSLDIIILIFVLSAI VPDKMQKAINRLSRLKPGGM MLLRDYGRYDMAQLRFKKGIL KVLNPNH
14237	44605	A	14320	701	1519	LIVHFCLQVGCGVGNTVPILQ TNNDPGLFVYCCDFSSTAIELV QTNSEYDPSRCFAFVHDLCD EKSYVPKGSLDIIILIFVLSAIV DKMQKAINRLSRLKPGGMVL LRDYGRYDMAQLRFKKGQCLS GNFYVRGDGTRVYLCHTRCNW TRFSPTAGLEKPKPVDRLQ VNRGKTTDNVPGLDVQILQAP SVQHQLRGYLLPTRCKPVVVS GLFLKKKIVALGVV/RCL*SQPL RRLRRGGSIE/HQQSNLGKIVRD PVSESNDKIKRI

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14238	44606	A	14321	756	1334	PGKFVLM SFLDPQPTRILEVGC GVGNTVFPIFTNRTMTQDSL VY CCDFSSTA IELVQTNSEYDPSS VF A FVQGPV**RESVTQCPRAV LDI I L I F V L S A I V P D K M Q K A I N R L S R L L K P G G M M L L R D Y G R Y D M A Q L R F K K E E L D T L F T T A G L E K V Q N L V D R R L Q V N R G K Q L T M Y R V W I Q C K Y C K P L L S S T S
14239	44607	A	14322	249	474	VYLLIVLAVLYTNNRQTESQIM SELPFTIASKRIKYLGIQL\TRDV KDLFKDNYIPLLKEI*EDTSKW KSIPCSWI
14240	44608	A	14323	1	5796	
14241	44609	A	14324	1	2721	
14242	44610	A	14325	1	3438	
14243	44611	A	14326	1	3306	
14244	44612	A	14327	1	2364	
14245	44613	A	14328	1	2091	
14246	44614	A	14329	1	2334	
14247	44615	A	14330	1	1986	
14248	44616	B	14331	1	2559	
14249	44617	A	14332	1	1671	
14250	44618	A	14333	1	1845	
14251	44619	B	14334	1	2055	
14252	44620	B	14335	1	1554	
14253	44621	A	14336	1	2559	
14254	44622	A	14337	1	1714	
14255	44623	A	14338	1537	2204	

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14256	44624	A	14339	2004	3751	YQSLAETQQQKKNFRPISLMN IDAKILNKILANRIQQHIQKLIH HDQEGFIPGMQGWFNHKSINV IQHINRTKDKNHMIIISVDAEKA FDKVQQHFMLKTLNKLDDIDGL EVLARAIRQEKEIKGIQSGKEEV KLSLFADDMIAYLENPIVSAQN LLKLISNFNKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTI ASKRIKYLGI\KLTRGVKDLFRE NYKLAPLIKEIREDTNKWKNIPC SWIGRMNIMKMAILPKVNYRF NAIPIKLPMTFFIGLGKILLSSY GTTKRAHIAKTILRQKNKAGGI TLPDFKLYYKATVAKTAWYW YQNRDIDQWNRTEPSEIMPHIY NYLIFDKPEKNKQWGKDSL FN KWCWENWLAICRKLKLDPFLT PYRKINSRWIKDLNVRPKTIKTL EENLGITIQDIGVGKDFMSKTPK AMATKAKIDKWDLIKLKSFCT AKETTIRVNRQPTKWENIFATY SSDKGLISRIYNELKQIYKKKTN NPIKKWVKDMNRHFSKEDIYA AKKYMKKCSSSLAIREMQIKTT MRYHLTPVRMAIIKKSGNNRC WRGCGEIGTL
14257	44625	A	14340	519	1286	LNLEERAFRHSSEHLPHLKVH FRHSSCGIKTKSLLHVSPPTTLIF PYPPLWGNPSN*ARPPCSVHSG PYPQGLASIIAHGSPGNVRGVH V*INDSEGGISRPSTASHKETPR PPTPARHADLAATRPRSLTTSPS \GAGPRA/PSRAGPSVGGGLLRP SGRAPRAEVALPAGLSPAGLAG PPPSGRSTGALPPAAAPTTS GP/P ASTPPNAPAPGHTLSSRS PHRA ARPPPHCGAEWTGFTMRPSW RISQSFIVKDS
14258	44626	A	14341	482	700	

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14259	44627	A	14342	1368	2416	SSMTQSSCPMTSYLKSKFGEPL MPSYTNPTETGVSKLVNKTQVF TYAHKGPVSIYFDACQAAHLSK LNNIWTSVKI*DKKESASRATK AITEESKKECPDCDNQWTTHEF NQHLYTGRAALFASQEEKIGYT TGTCYPLNLTILKPNMTFWTKG HKGLLTFDQAGALLGLGIPLVI TKKTQRTQVQLSPIQQFRFYKS FNEHFNSEVSKIQIPPISTENLFV QLAKSIANNLGVTSYVCGGA NMRDQWPWEARELMLQDNFT LPEFVTKFNANPSVWLLRNPIIG KYCIACWGKSFQNQIGETTCLG QQYFEENSENRTQWRSFIDDSSIG HFNPFLLQFPTLNQSWYQLE
14260	44628	B	14343	1	1071	
14261	44629	C	14344	89	283	
14262	44630	A	14345	244	315	NPKGQKDREAPLSRSVFVLKIKI KRAFALLHGRF*PSTPAASASP ASKSPRGSGKALASALFYIVQL TK
14263	44631	A	14346	1228	1656	QVYRPSQTPHLALSPERVAPGR RAAGRLAPEARAPRGSP/LPPHR VSEKTIRVVVFHPGARRAGGTP PRAPRGDTGGAPGA\PTYSTPL MSLHRARLESSPTGSSFPADSA KPVPLAVVSLDSR*GQWESRSS IHA\VTN*MTRH
14264	44632	A	14347	2	705	GSWPGLDDGSATRILACPWPGL GDGPAAPKANLPLVRWKPCF RGEGL*GSSCF SATLLTGDLW ACSSRSTASARLSTYPSAFTSG WCSSLGPTEEAPGSWINCPLAG ILGAATSPKPSAIPQASPEVSLD AEDTGMKP*DSA\GPPGPARGL CGRGCLSPACMGLRP/PSPPA QSPSTALTSLT\PSPFHPPRKKW SPPSAPAPSAPSPAPASLTSPAP PAPSPAPTAPAP

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14265	44633	A	14348	367	1174	WVRGQPSQSQDLACSTPTS* WPPGRAPPPPLP/PPPPLPPPTP ASPPLLHPPRRAPPPPVPSFTP ASPPDPVPRPTKALTGLP/LCP LPCMGR/PFVPYLGGLLPCLGP DFSSL**SPGGWDRPVRPLGISQ IPE\PLTMGL*MQ*IPP*PRFQG HYAPLPPLQTLCSVKTPGRNPR GLPMHKILQPQNPSQPPCELPO AHCPTTPPKQCPAAFSILPVT FADKDPGAPEGTVKAPMPTQ *EL*PLRPREHRVLSGPTAGQT
14266	44634	A	14349	332	988	RRAGTPASWGHNGARAKTPSR ACACGLYPIHQPTARRAPAAR SHGPGPPALPRKGAAGPRSVS HHPLRPCSRSSCLAWPCLHHPQ PLHCHPHRHWPKWHPHPLAPH PLLGLHPRSRPQTTPWTSCGPSR RLPTPSGSWPAPFDRDWPNAAR PSALCCPFCQEPQLTPCLHLCPH PHPHRHLPGLSCPHRPPRWSP QSPCPWWLLWWTGQWWQPGE
14267	44635	A	14350	190	718	FVLQLPPAPKSGLGRLWGSPPPG QFSSSQRTGTVRGRGCAEPRG SLPHPT*GNNK*HGNWMGLGS QGL\GRQPGEDKHICYQR/IGVG GAHLLRPPHQIRSLTSTGSGCS HPWSRELGCSDGQRASAPLA LRQAWGEGLAGRNHTIVPFHG DISIAPRLLPCRETLFSALCGGES
14268	44636	A	14351	1	486	MKGEVSCKQHQQDALQQVLWA MLQDADKQVRRAPGPVENENH CDFVKLREMLICTNMEDLREQT HTRHYELYRRCKLEEMGFTDV GPENKPVRVLLFKSLSDSKRVK YDEEWIRLPVE/MKY/MLERKV TQKQP*VPLVFVSWRSR*ESLR REEENQQCHVLEL

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14269	44637	A	14352	1	2380	MMWSVLLQPVVLA AVERQGE ALEFLIGVPESDGENGTKLENT LQDIIQEDFPNLRQAHVQIQEI QRTPQRYSLRRATPRHIIVRFTK VEMKEKMLRAAREKGRVTLK GKPIRLTADLSAETLQARRDRG PIFNILKEKNFQPRISYPAKLSFT SEGEIKYFTDKQMLRDFVTTRP ALKELLKEALNMERNNRNFFG VTF AFFVGGQSLGKALQETSIPF LREEDLEKTSILETGNGDWEAT RGLPEECAGMRERDCQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDN SIDSWKNAGR VFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGKH YGKQS LTTAQVNVKSDDTLKINGVED HKTIFDGDGKTYQNVQQFIDEG NYTSGDNHTLRDPHYVEDKGH KYLGLIPTYDISSNIYLISK SCLW QANFRLNSALAQSPAITNFQFR GHSLKTLDLLTMKNLDSKVNI PVIKADTVSKTELHKFKIKFM SELVSNGVQIYQFPTDDDTIAK VNAAMNGQLPFAVVGSMDEIK VGNKMVKARQYPWGVVQVEN ENHCDFVKLREMFICTNMEDL REQTHTRHYEL YRRLQLEEMG FTDVAPKNKPASVQETYEAKR HEFHGERQRKEEEMKQMFVQR
14270	44638	A	14353	105	328	
14271	44639	A	14354	107	676	IRPDSLPSASPAQDFYAASSNTF PA/DRWSALT KIYEDQTS HNIPL SQ/TLIQSKALT FNSVKA EKDE EAAEEKFEVTRVVHIRGLIDGV VEADIVEALQEFGLISYVMVMS KKRQALVEFEDVLEACNAVNY TADNQIHIAGHPAFVNYSTSQKI SRPGNSDDPEREQCASLYHPEP HLFDHHGCSLHYR
14272	44640	A	14355	221	648	LDWLRRVVGIPSLRWTCATLV GTRRAARHRCVNVWECGGLKE ITY*SV EGLCRA/EKPKPLALLE ETCKLPERQVVNAKEKFLEE\IK SATPVNT*MIRKRNCIITDMEK V*AVWIEDQTS HNLPLS QSLIES RALTLFNYVMA
14273	44641	A	14356	122	317	

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14274	44642	A	14357	338	489	WLGQN*RHGKQPGPGVGHVGT TVWS*PHSPACWAPAPQGAPT GEEGCHF
14275	44643	A	14358	1	459	RPVWRNSQPPTAAYRWASGR MWSTSFSRWNKTPSGKACSSS DKGPPMAQVPIQQRNVPPPTK/ QPLVLCHGEAPDFSRPPQHRPS LQKHPSTGG/PSHSPLPTSAPSSR AGLPPLAMTDLTSGWRLWTPI QPFRLPPGSCREGTILLCSVMD
14276	44644	A	14359	609	2077	GLKAQPSSSRGHSRGPACAAA PASRVHLPVTFCEPNSSPCPHC TGGWGGRGQ/PACAGNPTASSP CQIECPALRSCLHALMDLGSPQ\ LRGAPRTGVDPRLHLLPQPAL SSPPVLLRGPLLRGTCPLAARQ GQSPPAPGLLGHGPHRGRLPP AQGGHRLPQPPGPGRRHRAQP DPRRPGLRAAAASGPGLAAWG AVRAAERPSSGGLPGGAGPHH ARAQGPRAAPPAAAAAPGVAP AGGGA VPGGHPHRPGGEAALP AHGLPAPAAERTAPR\QPCPAC GLIARSDVHHPPVLP/LSGPAP APGRLVGQLGVRGAPSSPVPHP ALHFPRAPQ/PPGKGITTTSTQ PAGSPSPCMPPAATPGARHPP GSA\GHRAGV*GHTGPCDPHGP GHHGHAQLL*/DQAAVGVGRP GPWALSGMSQPPTLPTAGHPA PACGVRAFQDGTTPRAKPAL/ LSDKGPPMAQVPIQQRNVPPPT KHPCPGPQSSTWMRQ

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14277	44645	A	14363	47	1250	EPRPSRSSGGPQLGQGLPRPMK KIPGSSAKTAGPLATRPEVPRAP *SAGRQPWFQRPWGKRKGRKT *NHGSPGVKP/TPGPLNKDKGE KEERPRQQDPQRKALLHMFSG KPPEKPLPNGKGSTESSDYLR SVTPGPWSFSPQVVASGPMMPVH TTKKPA*APPQVL/EPKERQTGA AADMPQPAVRHQGREPLL VVK PTHSRPEGGCREVPQAA/SQNPR PAPGLQTPGTRQTS\SVTPQPCP PAATHSLGLGSNLSFGPGAKRP AQAPIQACLNFPKKPRLGPFQIP ESAIQGGELGAPENLQPPPAAT ELGPSTSPQMGRRTPAQVPSVD RQPPHSRCLPTAQAQCTMSHHS AAGHDG/DPASQSALPETGKRT LELQPPGGPLISLS*EAGSLSRSE PSCVREV
14278	44646	A	14364	23	714	EAP EIPRQNRMTMKERP VWL PHK*IHPNVAKWSRVPVQVQK NPQFQE\PTPEFIPVPGTSPEAAG FWH*GAHDSPGTRDRSEVEPGR GHPHLGPRDSAAADPGEHSPCD CP*ACPEVRRWPA\APVQIQYIIP SVDDFSLEFHAQDGDSDMRRE NVPFSPAEEGKAAPLYQQPLMI PQANHMAGISPS/SPTAAEFQHR DVHHRGPGTRDRTHTETGRVC PHPVPTDSPAL

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14279	44647	A	14365	3	1869	ITTVAPSRPASSDCESDGS*EQD AGPGSRMGPEK*AGPRPTRRVG RWSQTHSQTDDTSGAVVPEYP SDR*YAGGRGPG/PGGPTVHP* KRRS*NPQETKMMARRDPKSW AKRLSPV*PRLAALLTSASPSCP LEPRVLPFRVPPSHGLCEGTSYP NSPGT*RPPCRSSAKTAGPLATR PEVPGAP*SAGRQPFQRPWG KRKG\GKPETMEAPG*SQPGAL EQG*GREGRETKATRAEEGSP PHVFRETSREAAAEWKRIHGVF *SSEHGP*FPFSFPSAGGNRGT PLSCLLGV RDSTILPGCKRANA GPHNQ*EAARGPCPR*SISAAE MSGRGSVLASLSPLRKASLSSSS SLGPKERQTGAAA/AHPSACSQ APGPRASPRGEADTQPPRG*LP RSSPGCLQNPRPAPGRQTPGTR QTSCGDL/SSPARQPPHTAWA* APISASGQEPDLP\SSDSGLPEL PQETETGSLPDPRKRHPGR*AG GPGKSPTSASRNRTWTKYVAP DGQEDTGPQAQRRAASAQQT LPAYCPGLHHVPSLSGQP*WGP ASQS/GSSGDWKT DAGAPASW RPPHFTLLRSREPSLRALMCQR SLRLPVFVSHRASSMRTFRFPPP QRTAILTWS
14280	44648	B	14366	1	1519	
14281	44649	A	14367	312	1326	TTKTGQDKDRLEEFMQQLSGS KRKMSTQPRTELAPPNRHTTTTS TTPATNTTCTATVPPQPQYSYH DINVYSLAGLAPHITLNPTAHP QLKQCVRQAIERAVQELVHPV VDRSIKIAMTTCEQIVRKDFAL DSEESRMRIAHHMMRNLTAG MAMITCREPLLMSTNLKNSF ASALR/PDGSSAIQL*SND*SCS WRPKLYDAFWDLSSLRV**PSR PEGEGRVSSEGMGESLPFSSSW PRQYQSFLCICWTDAPARNTED R*SHNKVLSSVY*NVC*NQLPC SG*AAAQSCCQSHHDPQSQVLSQ PGCLCSTHCTARETLRGGHQHC HKD*SAEQGL

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14282	44650	A	14368	2	1120	PEPEPGARGGEQLNEDFEG*VA VPTCLHCPALSRTQSRAIQALT VRRGEATIRPPPCDDTKGGHRF LNELIKVVSPKVGAPSPSSDLPC RMWGEERGWTVGLPEEVKIAE AYQMLKKQGEAHRGWGATRA CLPLPHHERPKNVIFEDEEKSK VRLQGGTYGDSEPRWGSVGS KEMVQE/DSGRAQSTGRRRDG GIELGH\NVKLLTEMVMSHSQG GAAAGSSEDLMKVHLPPCLPHS LPTQPTRTLRMRPTLFRLASDT EDNDEALGEPRAGAEVRSPPLP PPPAPVRGEEVNGDATAGSIPG EEVAGELGGHPSGWRGTESYP AMPTRPGEQASPEQPSASVSLL DDELMSLGEEGARPGGGRAQQ
14283	44651	A	14369	1	432	GTRQEVTAGVEPAREWQRRLM EVQWGLERAPYCIQHAPR*RRS PARPGTQSCGLGACWIQ*GALS SPHCTISRRCHSLAGSTPAVTS CLV
14284	44652	A	14370	16	471	
14285	44653	B	14371	66	206	
14286	44654	B	14372	234	390	
14287	44655	B	14373	207	427	
14288	44656	A	14374	2	572	FLLERAPYGVGFSLLPGLWLGS RAGVGRHHDKRVLGRAPTWS LEGAVSSM/TPRPQLCVP/WPC WGPSSPGG*QQLGQLSCSYSLV DR*VALLWFWMLVGSPLVKGH CPTPWSRFVDFSVPLATPPGIVY WGLFAVFLFSHLLPARPGEQMS ACCRHLHAPSSPLLTLDSLIVY SCNSQGLVVRVFPPGD
14289	44657	A	14375	175	499	KQNKSMGRKSQGFVASFGNHL YCTASCGMPASSTSTQTWPRVL PLHSQ/ESSHGGCSWRGRR*GP RPRPHKTPVPMVMDSTARNRA RRELVLAWCKSPLATALLVSW DK
14290	44658	A	14376	408	625	VFGEQEVFGYMNKFSSGDF*DF GAPTTLSEHCTQC VVFYPSAP SFPFPVPKVHCVIPHSLVPTYE WEHTM

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14291	44659	A	14377	1263	1812	AGDAAPEDPAGRGQEDLYDEE LPGWGLCIPHPACLPQCHA*VT KAG/ARVKVILPS*DTQRTKDIL KAGGG/PSSIHFINSAHGKPAVI VRPRGIWVLNTTPLSGQWGPYI GVYTAATVDMKSLGSGSLGLQ LALPLAASWLGVLTEAARVFG EQVVFGYMNSFFSGDFWDFGA PITRAVYTVPNV
14292	44660	A	14378	1	693	
14293	44661	A	14379	2	1299	WDYV/KRPNLRLIGVTESDGEN GTKLENTLQDIILENFPNLARQA NIQIQEIQRTPQRYSSRRATPRHI IVTFAKVEMNEKMLRAAREKG RVTHKGKPIRLTADLSAETLQA RREWGPFIENILKEKNFQPRISYP AKLSFISEGEIKSFTDKQMLRDF VTTRPALKELLKEALNMERKN RQINETENQQGYPGIELGSAPSG PNPLFCRHLQMSVDGRHLQNSP PQINRIYIFLAPHHTYSKIDHILG SKTLLKKCKRTEIITNYLSDHSA IKLELRIKKLTQNCSTTWKLNH LLLNDYWVHNEMKAEMKMFF ETNENKDTTYQNLWDTFKAVY RGKFLALNAHKRKQERSKMDT LTSQLELEKQEQTTHSKASRRQ EITKIKEELKEIETQKTLQEINES KSWFFERINKIDRPLARLTKKK REKNQIDAIGN
14294	44662	A	14380	2	383	
14295	44663	A	14381	1	1536	
14296	44664	A	14382	2	1118	REHLAEGMAVGTAADLNISA CWLRRREQQISQHSARALLRDRL PPQENSSWHPAGAPLGRNFQRK EQAAIFAVLQPPLVIPRKTGSGV DLEQTPADLQKRGTLVTRKTN KQKAIASSTERTPTQKPPFKSH QHQRPNVDKSAKMRKNQSKK AENSKNQNTSSPPKDHNSPAR EQNWTENEFDELTEVGFRWV ITNSSKLKEHVLTQCKETKKLD KRLEELLTIITSLEKNINDLMEL KNTAGELRDAYTSINS*IDQAE RISEIGDQLNEIKCEDKMREK\R MKRNEQSLQEIWDYVKRPNLR LIGVPESDGENGTKLENTLQDI QENFPNLARQANIQIQEIQRTPQ RYSSRRATPRHIIVRFTKV

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14297	44665	A	14383	1	1154	MLPILGSRHPSSLGQARKLDYR PSKSQCLEPGTTPRACLVLYTLV AKLIYNDYFIHYFAPRGLPPME KNVVFFVIDISGFMFGTKMKQD HNFSLAREQNWTENEFDKLME VDFRRWVITNSSELKEHVLTQC KEANNLEKRLDELLTRITSVEK NINDLMELKNTAGELREAYTSF NSCNDQAEKISEIEDQLNEIKP NRLIGVPESDGENGTKLENTL QDIIQENFSNLAKQANVQIQEI QRTPQRY\SSR\RATPRTH/IIVRF TKVGNGREKMFKGQPGGKGR\ VTLKGKPITLTADLSAETLQAR REWGPIFNILKEKNFQPRISYPA KLSFISEGEIKYFTDKQMLRDF VTTRPALQELLKEALNMERNN RYQPLQNHAKM
14298	44666	B	14384	1	1554	
14299	44667	A	14385	1	909	
14300	44668	A	14386	2	207	DIMSCILQNYNRPPVMALAIPIA VKFLHRGNKELCRNMSNYLSL AAITKAD\LLADHTEVIVKSILQ
14301	44669	A	14387	496	1207	PLITGTHDSGSVESQLIKLILTM HQLFRLVLGQKDLRAGDLFS *NNSEIEDSLTEALEQIKIISSSSD YQTNNNDQAVVEICITRITTAIR ETESIEKHAKALVGLWDSCLEH NLRPFGKDEDTPHAKIASDIMS CILPELQPTPQSMALAIPIAVKF LHRGNKELCRNMSNYLSLAAIT KADLLADHTEVIVKSILQGMVR KLSLGTCFGRYLKVFSSSIYGL WEARPRVLEAN
14302	44670	A	14388	219	448	VSLELCLKTTGPDCGCQTSQTP PAAAYHHL/PGAGLPCGPRLPA LCCSCPMGARPL*HHKR/DPSRF QEKTHLYLPSSH
14303	44671	A	14389	542	1365	GTEGVMANRSQEGNGGGSWR AKQVVVTVPF*EQSLVIMLWR RGNT*QRPSEGTSRSHICSFH MSRHCQ*CKLLKEP/VSAEAR DALDTKTHFPLAMIPSYLLNG NIGELPEGPAGGCAQNPGLWAS /RGPARR*RSQASSSPEVRWPPG QCGLRGRPCKKEIPRPHWSPR CASPYRGAGGQRLRRACSAAG RKTPDRRPLPEPTRGPVSQRAV LGKLRAAAGHRIPIGDLGDGLS LGAPPAGRHLHTVLPRLRREFSP CEDALGIGEQQGKKRVT

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14304	44672	A	14390	3	723	PVLRGGIQEFAYIKALYERKFL VPKPIDYNRHA VDMELINGYPL C*IHHVEDPASVYDEAMELIVE LANHGLIHGDFNEFNILDESD HITMIDFPQMDSTSHPNAEWYF DRDVKCIIDFFMKRFSYESELF TFKDIRREDTLDVEVSASGYTK EMQADDELLHPLGPDDKNIETK EGSEFSFSDGEVAEKADEVYGE NESERNCLEESEGCYSDHLETL NK*RKTVYQKRVL MHGV LK
14305	44673	A	14391	1	1889	MGSKVKEVEDDSQMSDLVRG MNAFSKTGSGGVEQGRTGQGG TNGHIKKAKARDRDRRFFKKT QRKVGNDNLQLPLRWTEQHAE THIMNFCSKNYNRNIPGKPRESI DTLNEAACRGRLSKTARKLWS EAQDQRSFQATEMQAFLFSAK RIAAEKKTIIRRDLC SIWGKLL PRPGSQSVPAQIPENLQEQEERA K WLLNGRSKFFPQTSTLGKVT SNKTGVKEPELESRQPNLLKVE MGMKNHEIVPGSLIASLKH GGCNKVLRELVKHKLIAWERT KTVQGYRLTNAGYDYLAKTL SSRQVVESVGNQMVGKVESYI YIVANEEGQQFALKLHRLGRTS FRNLKNKRDYHKHRHNVSWL YLSRLSAMKEFAYMKFRTLEIR DYFYWVKINVLTGPCSPKRGSS GEFVPCLLQLLGFGDCWHSFG LWHITPVSVSMLTLLPSLLLVK QKKPTLDSRMGQDFVVELQL YLCVLEREVIREYPPDGGIFGRY FDRDVKCIKDFFMKRFSYESEL FPTFKDIRREDTLDVEVSASGY TKEMQADDELLHPLGPDDKNIE TKEGSEFSFSDGEVPEKADEVYGE SENESEARNCLEESEGCYSDHLE TLNK*RKTVYQKRVL MHGV LK

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14306	44674	A	14392	150	1910	STPPGGPSVLM*STEEPAGGRS QPLCDDLSTRPLSCLGAGCCLW PAKRISAKEEPWYSSRSKDKKE KNYSSPETTTSGGCHSPGDSQY QELAVALESSSVTINQLNENIES LKQKKQVEHQLEEA KKTNNE IHKAQMEQLETINILTLEKADL KTTLYHTKRAARHFEEESKDLA GRLQYSLQRIQELERALCAVST QQQEEDRGHCLSSPDQNFSLFTI QSSSCREAVLHRRLLQQTIKERA LLNAHVTQVTESLKQVQLERD EYAKHIKGERARWQERMWKM SVEARTLKEEKKRDIHQELER SLSELKNQMAEPPSLAPPAVTS VVEQLQDEAKHLRQEVEGLEG KLQSQVENNQALSLSKEQKQ RLQEQEEMLRQEQAQRVREQE RLCEQNERLREQQKMLQEQGE RLRKQEQLRKQEERLRKEER L/TKAGKEAVGPGGEAVEEGGE ATKAGGEARALPEPQARQAAG RATVQLRGSEQREKERTAVGA ASKGAAGEARRGEDAVHGH SAADL*EGGAAQAVTAADPVR GPAAGSLGQSGAPRSCQPPE PTARDPAKPRGSPWRRRWRTT
14307	44675	B	14393	463	3755	
14308	44676	B	14394	175	1835	
14309	44677	A	14395	102	465	RAYCWAYIRLSCLTVILIAWCS QESALSEEEEDTTRPLETVTFKD VAVDLTQEEWEQMKPAQRNL YRDVMLENYSNLVTVCQVTK PDV\SSWSKKRSPG*WRKKCL GGTVQNPEERTAV
14310	44678	A	14396	1	330	
14311	44679	A	14397	1	531	MLLNIPQHTRQSPRAKNYLAQ NVNSVKAWCSQESALSEEEED TTRPLVRLKHLFVSCIILQCSYV LLPLTPEYQLNKFLYVVITMPN FDDFKLISIMFLQETVTFKDVA VDLTQEEWEQMKPAQRNL YRDVMLENYSNLVTVCQVTKPD V\SSWSKKRSPG*WRKKCLGG

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14312	44680	A	14398	1	539	MPTTTTREMTONSSETIKNKNG KKQRKQRKNSKKNRRKQKDE DKTRRQNKRRHHKKNDINPEEE RTAVRLKDGGAPAPQAVQEHD AGICSASGGAQETYILVEGKGE ASTSPGQSKGSREGGVGANETC SKKLYRDVMLENYSNLVT/VG CQVTKPDVYSSWSKKRSPG*W RKKFWEALSR
14313	44681	A	14399	322	1227	FDLKMSKCRKTPLQQLASPASF SPDILADIFELFAKNFSYWKLPL NNEWQLPDPSEIFTCDHTEFNA FPWI*RTP*NEVKKPTGVIRTW DEWHEHTCFH**SGE/ISFPHGR KSVNAELWTQAWCKFHEILCS FPLIPQEAQNGKLNLSHLCEAP GAFIASLNHYLKSHRFPCHWSW VANTLNPYHEANDDLMMIMD DRLIANTLHWYFGPDNTGDI MTLKFLTGLQNFISSMGTVHLV TANGSFDCQ*NPAGDQRMVKG HCYFPSWNWLHLSKHTQCGNE FIFMTKKKQSLTAKSLPDFTS
14314	44682	A	14400	3	183	KRKEITNSLDAAASRGTVPAAL AGVQYLEPRAGAAGRLGGAG WGRVPRPGSS/SSLVLVGR*GW CPVLRTQGRCCRPPGGCWVGA RPAWELLSLVLVGR
14315	44683	A	14401	21	399	IWNSAPTASRRPWSLAPGSPRS TWCVASTPPCAPGKAREPRDRS EVPPATAPAVLQSHWPCPRSSR SGSAGNCVGPPHSWAPGHSQH LTPGPGHGGPRGP/CWHLLMQT AWPALTPPGAMPGEAEGQ
14316	44684	A	14402	59	478	RCSQPWHCPAALAGVQYLEPR AGAAGRLGGAGWGRVPRPREL LSLSLVGR*GWRPQEQLFPH LRRPVGTRSESTWGNRAGAAT W/RAATPSPWRT*NGTKSKQW TASGLWQKGDGWD*GSGKPPL PLSVPAGQRLVPVC
14317	44685	A	14403	1150	1319	PRRLPTACTP*RS/CSRYWMVP KSPRMTMMMWTKLARMGAQ W*PRKSNACLSRAASS
14318	44686	A	14404	34	304	LPSRGAGLGTCSPPCLSLPPTPW APVRPEPPRRAPPAPRRVPST TQ/EARRSAASLLSPARPRAHRD GTNNSRRATLRAVTLTARVRG F

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14319	44687	A	14405	1	360	SSSLSYLPAGQGSGPAARHA*ASHPLHGLLCGPSLPNEHRPLLQGAQSH*PPKG*GVRAHGVGLA GRSTCSP/ECGIH*VKPAGLLSFLGPRCFYEL*QSPRRSAAASLLSPARSRAHRE
14320	44688	B	14406	80	1166	
14321	44689	C	14407	1	543	
14322	44690	B	14408	1	930	
14323	44691	B	14409	1	1473	
14324	44692	A	14410	388	606	
14325	44693	A	14411	1	798	
14326	44694	A	14412	687	832	
14327	44695	B	14413	1	1218	
14328	44696	B	14414	1	642	
14329	44697	B	14415	1	807	
14330	44698	A	14416	554	724	
14331	44699	A	14417	216	494	
14332	44700	A	14418	1	3408	
14333	44701	A	14419	330	858	VPSLDGQRGLELDTECRLVYLQ SLS*T*RFSTSSPEQLDTECRLV HSQTLC*TQGADWCIYKP*VGL QVELPASAPWLAFLSPWVFN GTGRHGAGGGARRGGSGCTGA HGVGGRLRHGRLQVPSAPWE GSCSLPSPIGPPFKRAHSVLQKG SSTLMVGTCASSPKVVPFHLLS
14334	44702	B	14420	182	1513	
14335	44703	B	14421	1	1608	
14336	44704	C	14422	1	1830	
14337	44705	A	14423	167	433	LPSRGAGLGTCSPCLSLPPTPW APVRSEPPRRAPP/GSTVSPIN HPRAEECERMARDWQAAPPAA PVRDPLGEASWAPEFFGSMLPL
14338	44706	B	14424	32	352	
14339	44707	B	14425	103	451	
14340	44708	A	14426	158	921	LPSRWAGLGTCSPCLSLPPTPW WAPVRPEPPRRAPPSAPRRPVP RPPKG*GVPAHGAGLAGSSTCS PDICRVCRSEGTPEKPLYHPCVC TGSIKFIHQEC\YSPDMPSRLPIQ DIFAGLVTSIGTAIRYWFHYTLV AFAWLGVVPLTAWHQLLDLGS TLNPGCSHLVILKLTSTKTLP NKATFILVVLSQDKTLMEDPR MEDKWKEDRFSPFNSEALEITL GERHRPQTASVIPWFCSSRHVL NLGKINFEVD

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14341	44709	A	14427	242	515	IQSVHWCIHKP*ARHRVLIGVFT IPELDIKVLHVPTRLRNPAGFTH WILHRDCRCSCMPVLRHAPALL SPWVVNGTGRSRAGDSTHRRG SG
14342	44710	A	14428	759	988	TWPRKPLFPPRPLGL*WEGMLQ RSLTCPGDIFPIILVISIWLLVTY ANFGSWL*FLPRKWVFPFFIPVP NKFLIFI
14343	44711	A	14429	130	788	VLQLIKAVWTPRTQEPSWLPPV NPARELQVELPASPAPCARTPQ LLGGRWDWAPWSRGWRSFGE ARAAQKPMEGVGGSGMAGCR SRALPHGKAAKARRAIEHSTGG LALLGDPVHSPQPLARVLSPLP RASRAGWLLRVRGPPSPRPPGT PAGRQAPHAAPVPARASPSTPP/ CRAERVGSSPGQPRKGLPQCRG EAEGLLKCHQSGSPGRGEELW HSR
14344	44712	A	14430	108	1686	ANRCPLPHPGTGAGRCLGASA GRAEEAGV*GPLHEGLGYRPA GLFLRADTGHRTPGWGGGGGG AGGRGGAAPGPGVGATRRFAG RRGCARHGAAVPAAVRCCERL VLNVAGLRFETRARTLGRFPDT LLGDPARRGRFYDDARREYFFD RHRPSFDAVLYYYQSGGRLRRP AHVPLDVFLLEEVAFYGLGAAA LARLREDEGCPVPPERPLPRRAF ARQLWLLFEFPESQAARVLAV VSVLVILVSIVVFCLETLPDFRD DRDGTGLAAAAAAGPFPAPLN GSSQMPGNPPRLPFNDPFFVVE TLCICWFSFELLVRLVCPSKAI FFKNVMNLIDFVAILPYFVALG TELARQRGVGGQQAMSLAILRVI RLVRVFRIFKLSRHSKGLQILGQ TLRASMRELGLLIFFLFIGVVLF SSAVYFAEVDVRVDSHFTSIPESF WWAVVTMTTVGYGDMAPVT VGGKIVGSLCAIAGVLTISLPVP VIVSNFSYFYHRETEGEEAGMF SHVDMQPCGPLEGKANGGLVD
14345	44713	A	14431	1	427	
14346	44714	B	14432	8	323	

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14347	44715	A	14433	20	1050	FNLVYMSHVSDGALSESASAT AASWPPHGFLLQHFVPGRPQVPI CLYLLGQKTG*HMAPLLRQVT GSPIPPKTTPGRGIRNMKRNEKR RYKTLMDAGWELHQELSLGRT SSLPPYKGPWPSPGFQKVSKG ANPVEIKRGVMLAVDAVIAEL KKQSKPVTKEEIAQVATISAN GDKEIGNIISDAMKKCGRKGIT KISSVQSIVTALEIANAYCKPLV IIAGDIDGEALTTLILNRLKVGL QVVAVKAPGFGDNRKNQLKDT VIATGGEVGEVTVIKDYAMLL KGKGNKSQIEKCVQEIIDQSDV TTSEYEKEKLS\EKLSDGVAVL KSHPWFSCTKIYPLT
14348	44716	A	14434	3	764	TTATVLARSIAKEGFEEKSKGA NPVEIRRGVMLAVDAVIAELKK QSKPVTTPEEIAQVATISANGD KEIGNIISDAMKKVGRKGVITV KDGKTLNDELEIIEGMMKFDRG\ YISHPFINTSKGQKCGISRDAYV LLSEKKIS\SIQSIVPA\LEIAHAH RKPLVIIAEDVDGEALSTLVLN RLKVGLQVVAVKAIPGFGDNR KNQLKDMAIATGGAVFGEEGL TLNLEDVQPHDLGKVGEVIVTK DDAMLLKGKGDK
14349	44717	A	14435	1	3288	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPVI GVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGNDPQGT SMYHGWVPDLHIHAEDTLLPF YLGEKDDVTYAIPKTCWPGLDI IPSCALHRIETELMGKFDEGKL PTDPLMLRLAIETVAHDYDVI VIDSAPNLGIGTINVVC
14350	44718	A	14436	2	422	

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14351	44719	A	14437	529	2484	WGINIIKKNKKAAPRAFGVRLE ECQPATENQRWQDLNVISSLLK SFFRKLPEPLFTDEELPLAPSCF EEENGGRGGGSPSPRYRLEPMDT IFVKNVKEDGPAHRAGLRTGD RLVKVNGESVIGKTYSQVIALI QNSDDTLELSIMPKDEDILQLPA ERESGGEASEPPRVVRPEPSTRA LEPPAEDRGDEVVLRQKPPTGR KVQLTPARQMNLGFGDESPEPE ASGRGERLGRKVAPLATTEDSL ASIPFIDICVRPCAWLHALLDW MAQQRVLDMQGGSIGMGVSW DRELEEKGSEKGYDEPTSPSIDL QAKHVPASAVVSSAMNSAPVL GTSPSSPTFTFTLGRHYSQDCST SAHLNIFAGIFDISNDHLQVSTL ESNFTRIHLTHYTGGNFPAWLA WDAVPFSSDLLNLGVHVLETG AGTPFLGSACSSDGIASQMNTA GLPQIRDLPGHYYETLKFLVGH LKTIAHSEKNKMEPRNLALV FGPTLVRTSEDNMTDMVTPHA *PLTRSWETLIQALQTGSSVTKR YKGKENPCGLTRSLRQCPTLST FLPNIWQDSAPWRPGVSGPVG LKDSTTCSSAKSKGSWAPKKEP YAREMLAISFISAVKPQAQEA GDAGAGQQHRRRLGAGGAQS LGRGPQRRGHQERS
14352	44720	B	14438	1	1473	
14353	44721	A	14439	5	694	VPDKWGWCLFMSRYLETAIRT AACAASPRYLNPGRCSAARGPS SQSPRPPWSGHKKRTASPGWG GQSAASPMPPSRSWPASVGGPE FRLSETPSRPFTLSGMK*GWQV HSWAPALFCSVMSFSPDTCCLC K*AHSQPCSPSPSTVILLRETSSN WDWQPEDLGAPKASASPPPSTT RITRLRSSELQLRRLNPSDSCHR GFCFSFRCLLTPEHVLPKTVLRI QPGCKVA
14354	44722	A	14440	303	757	MAWKVSLRGRKVAGRAPSCLR WASPPSSGQSVKSLLLPPARRL CPGPGVPARCHRI*GLGPGRG WRGEWRRDTNPWEPPQPRSPS/ G/PNCAWSDGCPRGAPRRPRAL *AGARRAAPARI*VPWRGSAG GCSNRRLQVPAHE*TPTPFIRYL

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14355	44723	A	14441	1	534	RHEDHSEPTFLISPSLLCFLLPSPA PPLPRLTPIPAALLVPAVQRME PVLFLPAPGAAACRVWHPALPP PRQAAVSSSRPCY\PCVARSA GRVRAAGVPPAPPSSSPRLGRV GGRSRSPNVVFRVRGAAPG/PG L*ISPWTP/PLNEAS*RQRGCPAS FAVYGGQEWPPQWPGPPRGP
14356	44724	B	14442	157	2143	
14357	44725	A	14443	258	4089	QLITCLSRPETGGKFEVDTRP VCPPSRARAARASAAVAAAA TLTPPTMDSFDLALLQEWDL LCVYEPDRNALRRKERERRNQ ETQQDDGTFNSSYSLFSEPYKT NKGDELSNRIQNTLGNDEM DFLTDRTNQSHLVGVPKPGVPQ TPVKNIDEHFVADSRAQNQPSSI CSTTTSTPAAVPVQQSKRGTMG WQKAGHPPSDGQQRATQQGSL RTLLGDGVGRQQ/HSGQTSVQC GGGPSDPGEATCHGGQ
14358	44726	B	14444	1	1326	
14359	44727	A	14445	453	710	SQHFGKPRQVDHLRPGV*DQP GQHGETPSLLKIQKLTGRGGAC LW/QSQLLRRLRQENRLNLGGG GCSEPGSCHCPPAWATERDSVS
14360	44728	B	14446	32	290	
14361	44729	A	14447	244	426	
14362	44730	A	14448	69	221	QWRFCGIERGERWGKD*EIGW LPCLCGKK*IWETFILFCTKKN SSALGSC
14363	44731	A	14449	27	220	AVILTAKICSFTPEPSKTTSPGG TNNSRRATLRAVTLTVKVCST P*GSAASFLKSVRPRTHQ
14364	44732	A	14450	115	732	EPETRIDPLSWNSSQLPVAALH LPGMSSVGAGQAICNLCCGLDL VSPSSLPALERTGPPWNRGPK GRGRLPSL/TVSQPSLVIPPGTG KSEVNADRSRPPAYCSNLGRYS GPGPPSLVIPPGTGKSEVNADRS GPPAYCSNHFPSALP**RSSMRS LSLQQTSAWTCRHFHTSLKSR WRFPNLNSCLLCTCRPNTTWKP CLGACTL
14365	44733	A	14451	528	875	EHGYFQGTGQKGCKSGKPPG GTLKTLLVTLREPGRLQSP*TS WVSRLP*YP*GDTGENCPKLS FHLRNLGPS*AG*RERPPQGG YLPPQAYRLMQGSFAWPLFGY APSPQR

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14366	44734	A	14452	2788	3414	ACFSYIAFWRINTTSTANLSKES LTSTTSRSWVINVNIVIFCTDWL FYKWLLKNFPIYFYMIFFPNQIT FHSMGSCAARASPTSTTPCSTA PSPIDHPRAEE\SSTRRV TGRQL HLQPAKICSFTPEPSKTTSPPGG TNNS\SALP*EL*HSPRRSAASL QFRTR*YPYRYQSQGP GSHF*L PLPLPSSIHDHF*LFHLQHTFQS HALLP
14367	44735	A	14453	662	1338	VLQLIKAVWTQRPLGGRWDW APWSRRWCSSGRLRPHRNQWS GWEAQAWGLQVPEPCPAGRQL RPGKSSSTAPVCTSCCRTRSTA GPTGCPSTRDPTLSASPS*TST TSLATATASASMWAGSCTSIST RGSASLVHQALTWP GSGPASPR KRVTGSH PVA*AGVRWRAHRS LQPQTPGLK*SSHFS LPSGWN YR HSNHPISQSFP HLSPLSIPQNH HCHGPF SM
14368	44736	A	14454	3	415	DFLLFSEILPASQSASAILPALPA SHRCPCLDVPLPPEVPGPARLP VAAASVWRPVQHLSLLGRWA GPT*DRTESRETNAEVEADLPP LYAHGRLEPTAGPSGASAVLST SSEYCPGPHPKMGHRRVTSCLS TCQS
14369	44737	A	14455	659	818	
14370	44738	A	14456	2	710	
14371	44739	A	14457	349	493	SS*VRWVSGR*HPQ*STLSAPLG ETSGCHQGGLHDLKIVVL
14372	44740	B	14458	1	1338	
14373	44741	A	14459	83	426	
14374	44742	A	14460	93	345	APALCLQILLDCKSVRNRTSRF RPREVGIIQYKKGGAAGKGG TGNAPGFLLSKDS*KDPTPLPP PLLL*GQRDH*IQLHQE
14375	44743	A	14461	1	1302	
14376	44744	A	14462	1	1174	
14377	44745	A	14463	274	1428	
14378	44746	A	14464	411	627	HCLSHFQNTGPRGDVDFQQEL FPVLMADIRKEERSHLCRSSRR TWTILDKS*IQGSRLSSKEQGW GWGTSRK
14379	44747	B	14465	1	1553	
14380	44748	A	14466	226	449	SLQPDI*CSGLRGSLLLV*PKSD
14381	44749	B	14467	1	2061	
14382	44750	B	14468	10	1099	

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14383	44751	A	14469	34	406	GGGFISLDTGSHHKSHPGGS*H ALGWVRPHTLNSP\PSQQPGNC GNPAWEC*GPHG/APSRWSCST PCRPSHPKVPAVRVAGPAGGCT PYRT/PTRRTPR*RPGPCAACDR P\LHPHCGRPGPAYPR
14384	44752	A	14470	623	1671	VLRSVSSWLPTSMAMTVLAPM LRAMSAGRLLM*PPSMSRCPSL GSHSGGR*PDS/GHAGAHVPPQ GAIFVDSHG*GGDICGHVEVRQ P/QGPQSAYPGRPDGCCG*RQT Q*TWR*LGT*GPTQVPAPKSCS WPTPGPAASCGRWRCAPPRTTLR *KSQWTCRPPGPRGPPPLMPL VLRCASSPWPRPRLAQQQWCS P*APSPSGRSRCAGPRAWRKPS RRAHAAWQCGAKRGGADSA GAGAPSTSCAYLATPRCAWGP HPPLGGAGLAA*GRAQPCSPAS APAGRG*APGPPGPQ*GCSR PVAGSARSASARRPSGRVRYGV HPPAGPATLTAGTLGCYPVRRP PGVPG
14385	44753	A	14471	32	972	QSGTFSTKNEGRTRTDVYDGR GPRVGRCGTCVYVRYVHDRPH APPHERRNDGNTQRTGNAR PGTAMPTATTDQPKGRSTRHK ETKRGRRTARN GKQNNPRK/RP RKDKRKQGSAGEGERGAGGKE KGQPRDTEAKGDRRTDFPPPNG /P*GQSKRGANIGGWFPPLGT PNPPLPGPQSAQVSGP*TPQMW MPTGTGCCGGSQSGSPPWCV SP*PVAEALFHSST/PAPRHPSPP SSSPKHSHQPSTPPP*ISLGQGPC RPPKRRPAPDQPQVPRCPEPSC AYLATPRPTMRMQSACRGSAR SRASARRPSG
14386	44754	A	14472	1	3128	
14387	44755	B	14473	239	5474	
14388	44756	A	14474	542	781	PASII MTGSISHITILTRVNRLN ASIKRHRLTDWQIR/IKSQDLSV CYIQETHFTCKDPHKLKIGWR KIYQVN*KQKKK

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14389	44757	A	14475	724	1340	QLTLQGRRVAPR*PSRVALEQE/ CGYNALLRYEGFENDSGLDFW CNICGSDIHPVGWCAASGKPLV PPRTIQHKYTNWKAFLVKRLTG AKTLPPDFSQKVSESMQYPFKP CMRVEVVDKRHLCTRVAVVE SVIGGRLRLVYEESEDRTDDFW CHMHSPLIHHIGWSRSIGHRFK RSDITKKQDGHFDTPPHLFAKV RSFYKNPHL
14390	44758	A	14476	1822	2226	KRLFTNRTRITPFVAINSHHHHH HHITIINTIITTTSTINSHHHHHY YHHHHHHHHHHQHNTTTTNTTT TNTTTTNNNTTTTITTTTNTT TTSTINSHHHHHNQCHHHHH HHHH/HHHHHQYHHHHH*HYQ \\HHHHHHYHHHHHHHHHHQ/ HHHHHQHHNQHHHHQQQH DHHHHYHHQH HHQH YQH HHHHHNQHCHHHHHHHHHQH HHDPPHHQH*HSHQH
14391	44759	A	14477	232	625	EGCCCIAMVQKYQSPVRVYK YPFELIMALRKRYPRCCVTC* TGGAQQVGFRLDLPLSLCTP* CLWRTSSSNF*RKAAGCSGSRL QSHHFGLIPQTAPKPWSSPLHI TKPQTLGQRDPGPRTRKRSK
14392	44760	A	14478	1	808	MPKTTACNVHTVTWASCENAD SDSTGLRHHDSCEDPASPGRS LCLVPHPTRPAVRGGRPAGGRC PAVPAEGPWRHLQQAQEG LKR LAGGLERLLENPVRRALPQGA QGHRAEPTEARPHPAEHRRAG AAAERAERLESQPVGASAAAA SAASARIPYLVAVPAAGPPRHR CRRHRRGPGTSSGPRTALIRPAT ARARAGIVSEPRTPGATRAP WRQGSHNPVAPSAP*LLRGPSIP WQIRPMPCTSHQTCSERRPSG RWQMPGSACRRSLETSSAGAG RAQEAGGRLGETSGESG/RAGL YLKELRAIVLNQQLVVRTQRQS IDELERRLNELSA*NRSLWEHP QLPQAQPPPGLTS*PSPLPALL GTAAAATAGAQEHLQDHGQRS SARPLPAPELASFQNHEQLLAQ PEPDPGGRAHTTQSPHQHPGTL GVKANKEKKGPPGCCAAPGTP LQQESPAPSARES

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14393	44761	A	14479	1	831	MIRYFGDYWTQALLTLIPGDPK HPRGPPVKVGVYGGQGYINSL ALCHNFIWRELNRFSLQDVPL VRYIDNIMLIGSIKFLGVQWCG ACRDIPSKDPADPMVLEVSAD RDAVWSIWQALIDESQQRPLGF WSKSLPSSADNYSPPERQLLAY YWALVETERSTMGHQVTMLPE LPVMNWVLSDPSSHK/ANGLA GWSGTGKKHDKWIGDKEIWRR GMWMDLSEWSK/D/VKIFVSHV SAHQRVTSAAEEFNQVDRMT RSMDDTTQPLYPTTPVIAQWAHE
14394	44762	B	14480	56	3476	
14395	44763	A	14481	3	591	DPADPMVLEVSEADRDA\VPIS ESQQRPLGFWSKALPSSANNYS FFKRQLLACYWVLVEIEHLM GHQVTMRPELPIINCVLSDPCSH KVGHAQQHSIIKWRWYIHDWA EGTSKLHEEVAQIPMVSTPSLP QPAPMASWEVPYDQLTEEEKT RAWFTDGSARHAGATQK WTA VALQPLSGTSLQDSSEEKSSQW
14396	44764	A	14482	1	1275	MEKNDIDQSRRRKVVMENNV QLVRYGEQASDLKTATKFKSPS EVKHIRFIQAFIGSKLLMRPW TTVTQILSLKSAKIALSESLIPC RKRAEFVEKQTQAFIMQVSDL QQKVHAQPSQVSTVKVKALIG KEWDPATWNGDVWEGPDEAG DTEFVNSDEAFLPEATAFPSPEV GNDQTVWGLLDTGSEMLIPG DPKYRGPPVKVGAYGGQVIN RGLAQIQLSMDPVGHRTRPVVS SPLPECHGTDILSSRQNPFIGSLT DITLVHYIDDIMLIGSSEQEVTIT LDLLVQAVAQAALPVGPYPDA DPMELKVSVAARDVWVSLWQ APIVTMRPERPIMNWVLSDPSS HKVGCAQQHSIIKWKWYIRDW ARSGPEGTNHSSRVCS/LPQVQ APSAR*ATARRGGQAASGCCLF WSCTCFNFDV
14397	44765	A	14483	604	1760	NSWCRWFNFRY*YPTFYWES* NT*IPLREWFG*NHDASCP*TLD SKSFSFETRGTGSPCSSLQTAYC GTLWIVQGV
14398	44766	A	14484	2710	3060	
14399	44767	A	14485	3	227	
14400	44768	A	14486	3	266	
14401	44769	A	14487	2	564	

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14402	44770	A	14488	2	503	FFFLLPIGFWRQHIPRLSVLLQHI Y*VT*NAASFEWGPEQEKA*Q VQAVVQVALPLGPYDPADPML LEVSADKDAGCTRLQAPIGE SQWRS LGFRSKALRSSAENYSS FERQLLACYWALVETECLTLG HQVTI*PELPIMNWVLSDPSSHK VGHEQQHSIIKWK
14403	44771	A	14489	2	469	
14404	44772	A	14490	1	633	MTVDYRKFNQVVTPMAA/AVP DAVSLLEQINTFPGTWYAAIDL ANAFSIPVHEAHQKQFAFLPQ GYINFPALCHNLIRRELDFFLLL QDITLVHYIDDILLIGSSEQEVV NTDLLIHKRSKEAHTAASRIR VSCLPEQKSHEQTLPEQVPSS GDIKEYFPNAFVLLTTASLQGG DNTSQLQLTWKAPEDIKMSKT DADADEEIEALRG
14405	44773	A	14491	1	518	MTVDYCKLNQVVIPIAAVSD VVSLLLEQINTSPGTWYAAIDLA NAFSIPVHKAQQKQFAFSWQG QQYTFTVLPQWYINSPALCHNL IRRDLDCFSPLDITLVHYIDDI MLIGSTIKWVVHSS/DSIIKWKW YVHDWARAGPEGTTNGLAG*S GTCKKHEWKTGDKGIRGRG
14406	44774	C	14492	33	932	
14407	44775	B	14493	27	2457	

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14408	44776	A	14494	332	2158	RGYVFCSWKKTDGS/WRMTVD YCKLNQVVIPIAAA VSDVVSLL EQINTSPGTWYAAIDLANAFFSI PVHKAQQKQFAFSWQQQQYTF TVLPQWYINSPALCHNLIRRD DCFSLPLDITLVHYIDDIMLIGP RQLLACY/WALVETEHLTISHQ VTMRPELPIMNWVLFDPSSHKV GCAQQHSIIKWKWYVHDWAR AGPEGTTTPVISQWPHEQCGHG GRDGGYAWAQCRPLPTKAD LNTATAKRPIQQQRPTLSPQY GTIPQGDQPATWWWVDYMG LPSWKGQRFVLTGIDTYSYGF AYPACNASAKTAICGLTECLIH HHDIPHSIASDQGFHMAKEVR QWAHDHGIHWSYHVSHHPEA AGLIEWWNGLLKSQQLQCQLGD NTWQGWGKVLQKVYALNQH PIYGTVSPIAKIHRSRNQGLEVA PLTITPRDPLAKFLLPFPATLQS AGLEVLVPEEGLPPGDTMIPL NWKLRPLPRHFGLLLPLNQQA KKGVTVLAVGTDLDYKDEITL LLHNGGKEEYAWNTGDPLGLL LILPCPMIKVNGKLQQLKPEAL VPKGVVFPFGDTTMLSLSWKL RLPSGHVGLLMPLSQVQKGV
14409	44777	A	14495	1	3187	MAEGKEEQVLSYTDGSRQREN EEDAKAETPDKTIRSHETYSLPR EWEYEGNRPHDSITSQWVPPTTR GNYGSTIQDEIWVGDSGYVRP VPVPRSLNSDISYFGVGGKQAV FFVGQSARMISKPADSQDVHEL VLSKEDFEKKEKNKEAIYSGYI RNRKDDYDNHTGIDLVTIIATI KGSNEEDTDTPFIGKVRTLFP FVNGSAEIMLMPSNQHKTE KGRANLGVFSVFAPRGEHTLQ VKAIYNKSIIEGP
14410	44778	A	14496	266	467	
14411	44779	B	14497	152	1245	

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14412	44780	A	14498	1	1445	MLRAAAGGQGLAAAGMGLCA RPAGGSQ LPRERMKG NRACLP LPPAVALTKGREKPDAGHQGR STQMMRESERGPCTHWTEERP GRQLKILLQKQMRQNTLMAFQ VSWDGRNKEIGRTFPHATAPHT QQLIFAMKIKRTGVTVEPWGLF ETGQRIRPIQAAGL*LSSSSTTC VALAPLLTMHVKSLALLSAP/Q MGALSTITSITTTTRRQTPAESHF PAARFHLLAPHSP LPPCCPGEP SESAVTVLCFAK GKTAQDAAV PTTSLTAAGHLAPRS*SSWSRM PVKVRRAPDSL PETS AHALPLT H*SWLPSASWGPASRALPGSEW VLKPVWQ/AITGPVSQITSSPGIP KPGPLQA*GSAHPQALGFSVL QIPLSNSPTSPMTPLPRPKISNS SLPSQ/PPQALFPNRWTNSSSPV HVITSAAQ\PRTPREWPAVSFYR TTATTASLIPHLWAPPQEN*QTS PAQNGSTLPCMSQATFHFPSP
14413	44781	A	14499	44	455	HLRNRTR/PSQITPHIYNHLIFDK /PLFNIWWWENWLAICRKLKLD PFLTPYTKINSRWIKD*NIRPKSI KNLEENLGNTIQHLG/TGKDFM TKTPKAMATKAKIDIWDLIKLK SFCTAKETIIRVNRLPT*WEKIF AIYP
14414	44782	A	14500	1	346	
14415	44783	A	14501	1926	2448	DFIAVITTRKQLKTKYNAHHSK QAITKHFSPKISDLILCLKKKIM NRHFSKEDIYA AKKHMKKCSP SLAIREMQIKTTMRYHLTPVRM AIIKKSGNNRCRRGCGEIGTLLH CWWDCKL VQPLCKSMWRFLR DLDP AIPLLGIYPKDYKSCCYK DTCTRMFIAALFTIAKTWNQP

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14416	44784	A	14502	1	2142	MIILIDAEKAFDKIQPFMLKTL NKLIGDGTYLKITRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLAQAIRQEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFFKKYKPLLNIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGEHTLGPV VGWGRGGIALVDIPNVNDKL MVLEVLARAIQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLISNFSKVSGYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNIP CSRIGRINIMKMAILPKVIYRFN DIPKLPMTFFTELEKTTLKFIW NQKRACIAKTILSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSHIYNH LIFYKPDKNKKWGNDSLFNKW CWENWLAICRKLKLDPFLTPYT KIHSRWIKDLNVRPKTIKTLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVIKLSFCTA KETTIRVSRQPTWEKIFAIYPS DKGLISRIYKELKQIYRKK\TNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCSSSLVIREMQIKTTM
14417	44785	A	14503	209	3816	QGRPTFRFRKYREHHKDTFREE QLQDT*SSDSPKLK*RKKC*GQ PERKVKLPTKGSPSD*KRISRQ/ KTLQARRQSWFFEKINKIDRPQ ARLIKKKREKNQIDTIKNDKGD ITDPTEIQITIREYYKHLANK LENLEEMDKFLDTYTLPRLNQE EVESVNRPIGSEIEAITNSLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQPIEKEGILPNSFYEASH LIPKPGRDTTKGNFRPISLMNI DAKIL

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14418	44786	A	14504	1	2877	MENDFDELREEGFRQSNYSELR EDIQTKGKEVENFEKNLEECITR ITNTEKCLKELMELKTKAQELR EEWRSLRSRCDQLEERV SAME DEM NEMKGEGKFREKRIKRNE QSLQEIWDYVKRPNLCLIGVPE RDGQNGTKLENTLQDVIQENFP NLARQANVQIQEIQRTPQRYSS RRATPRHIIVRFTKVEMKEKML RAAREKEIQT TISEYYKHLYTN KLENLEEMDKFLD TYTLPTLNQ EEVESLNR PITGAE
14419	44787	A	14505	1	2347	MELKTKARELHDECTSLSSRFD QLEERVSVMEDEM NEMNLPTK KSPGPDGFTA E FYQRYKEELVP FLLKLFQSIEKEGILPNSFYEPSII LIAKPGRD TTKKENFRPISLMNI NAKJLNKMLANQIQQHKKLIH HDQVGFIPGMQGWFNIRKSINV IQHINRTKDKNHMIISIDAEKAF DKIQQHFM LKTLNKL VLEVLA RAIRQEKEIKGIQLGKEEVKVSL FADDMIVYLENPTVSAQNLLKL IGNFSKVSGYKINVQKSQAFLY TNNRQTERQIMSELPFTIASKRI KYLGIQLTRDVKDLFKENNKPL LKEVKEDTNEWKNIPCSWVGRI NIVKMAILPKVIYRFNAIPIKLP MTFFTELEKTTLKFIWNQKRAC IAKSIFSQKNKAGGITLPDFKLY YKATVTKTAWYWYQNRDIAQ WNRTEPSEIMLHIYNYLIFDKPE KNKQWGKDSL FNKWCWENWL AICRKVKLDPFLTPYTKMNSR WIKDLNVRPKTIKTLEENLGITI QDIGVGKDFMSKTPKAMATKA KIDKWDLIKLSFCTAKETTIRV NRQPTTWEKIFATYSSDKGLISR IYNELKQIYKKKTNNPIKKWAK DVNRHFSKEDIYAAKKHMKKC SSSLAIREMQIKTTMRYHLTPV RMAIIKKSGNNRKIQ/GGIWCD RIL *R* T TCRVAKEIQL *RRI/W KRLQRTLSIPVLDAV*PPMF*AS
14420	44788	B	14506	1	2265	
14421	44789	A	14507	1	2832	
14422	44790	A	14508	1	2109	
14423	44791	A	14509	1	2757	
14424	44792	A	14510	1	2304	

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14425	44793	A	14511	1	2685	MGDFNTPLSTLDRSTRQKVNK DTQELNSAPHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKTDHIL GSKALLSECKRTEIITNYLSDDS AIKLELRIKNLTQNRSTTWKLN NLLDDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFVALNAHKRKQGRSKIDT LTSQKELEKQEQTTHSKASRRQ EITKIRAELEKETQKTVQKINES RSWFFERINKIDRQLARLIKKKR EKNLIDAIKNDKGDITDPTEIQ TTIREYYKHLYANKLENLEEM DKFLDTYTLPRLNQEEVESLNR PITGSEIVAIINSLTTKSPGPDG FTAIFYQRAIRQEKEIKGIQLGK EEVKLSLFADDMIVYLENPIVS AQKLISNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDTNKWKNI PCSW VGRINIVKMAILPKVIYRFNAIPI KLPMTFFTELKKTTLNFIWNQK RAHIAKS/VLSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN RDTDQWNRTEPSEIMPRIYNYL IFDKPEKNKQWGKDSL FNKWC WKNWLAICRKLKLDPFLTPYT KINSRWIKDLNIRPKTIKLEEN LGITIQDIGMGKDFMSKTPKAM ATKAKIDKWDLIKLSFCTAKE TTNRVNRQPTKWEKIFATYSSD
14426	44794	B	14512	1	2337	

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14427	44795	A	14513	1	1544	HINRAKDKNHMIISIDAEKAFD KIQQHFMKLTNLKLGIDGTYFR KSiNVIQHINRAKDKNHMIISID AEKAFDKIQQHFMKLTNLKLG DGTYFRKSIN/DNPAYKQSQRQ KPLIISIDAEKAFDKIQQPFMLK TLNKLDNIIVYLENPV SAPNLL KLISNFSKVSGYKINVQKSQAF LYTNNSQTESQIMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLKEIKEDTKKWKNI PCSWVG RINIVKMAILRKVIYRFNAIPIKL PMTFFTELEKTTLKFIWNQKRA PVAKAILSQKNKAGGITLPDFK LYYKATVTKTAWYWYQNRDI GQWNRTEPSEITPHVYNYLIFD KPEKTKQWGKDSL FNKWCWE NWLAI CRKLKLD PFLT PYTKIN SRWIKDLNVRPKTIK TLEENLGI TIQDIGMGKDFMSKTPKAMAT KDKIDKWDLIKLSFCTAKETT IRVNRQPTWEKTFATYSSDKG LISRIYNELKLIYKKKTNNPIKK WAKDMNRHFSKEDIYAAKKH MKKCSSSLAIREMQIKTTVRYH LTPVRMAIIKKSGNN
14428	44796	B	14514	110	2153	
14429	44797	A	14515	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDDTTYQNLWDTFKAVCRGK FIALNAHKRKQERSKIDTLTSQ KELEKQE QTHSKASRRQEITKIR AELKEIETQ
14430	44798	A	14516	3	2820	ENKDDTTYQNLWDAFKAVCRG KFIALNAHKRKQERSKIDTLTS QLKELEKQE QTHSKASRRQEIT KIRAELEIETQKSLQKINESRS WFFERINNIDRPLARLIKKKREK NQIDTIKNDKGDITTDPTIQT REYYKHL YANKLNLEEMDKF LDYTL PRLNQEEVESLNR PITG SEIVTIINSLPTKKSPGPDGFTAE FYQRYKEELVPFLKLFQSIEKE GILPNSFYEASIIIPKGRDTTK KENFR

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14431	44799	A	14517	687	2274	LRDCKRINQHPVKTDQSAFCK M/API/MQDVVLEVLARAIQEK EIKGIQLGKEEVKLSLFADDMI VYLENPIVSAQNLLKLISNFSKV SGYKINAQKSQAFLYTNNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLKEITEDT NKWKNIPCSWVGRINIVKMAIL PKVIYRFNAIPIKLPMFFTELE KTTLKFIWNQKRARMASILSQ KNKAGGITLPDFKLYYKATVT KTAWYWYQNRDQVQNRTEP SEITPHIYNYLIFDKPDKNKQW GKDSL FNK WG WENWLAICRKL KLDPFLTPYTRINSRWIKDLNV RPKTIKTLEENLDITI QDIGMGK DFMSKTPKAMATKAKIDK WDL IKLKSFCIAKETTIRVNRQPTKW EKIFATYSPDKGLISRIYNELKQI YKKKTNNPIKKWAKDMNRHFS KEDIYA AKKHKMRCSSSLAIRE IQIKTTMRYHLTPVRMAIHKKSG NN/R/CF*WQKPGPSG*ALRSWK EDIAGTSYVGMNQCMRKNTK TLI
14432	44800	B	14518	1	3192	
14433	44801	A	14519	1	2814	
14434	44802	A	14520	1	3144	MGDFNTPLSTLDRSSRQKVNK DTQELNSTLHHADLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHV GSKALLSKCKRTEIITNCLSDHS AIKPELRICKLTQNRSTTWKLN NLLLNDYWVHNKMKAEIKMFF ETNENKDTTYQNLWDTFKAVS RGKFIALNAHKRKQKRCKIDTL ASQLKEVEKQEQT HSKASRRQ EITKIRAE LKEIETQKT LQKINES RSWFLERINKIDRPLARLIKKKR EKNQIDVIKNDK

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14435	44803	A	14521	1	2616	TTYQNLWDAFKAVCRGKFIAL NVHKKRKQERSKIDTLTSQKEL EKQEQTTHSKASRRQEITKIRAEI KEIETQKTLQKINESRSWFFERI NKIDRPLARLIKKKREKNQIDAI KNDKGDITTNPTEIQTIREYYK HLYANKLENLEEMHKFLDTYT LPRLNQEEVESLNRPIGAEIVA IINSLPTKKSPGPDGFTGEFYQR YKEELVPFL/LKLFQSIEKEGIM NIDAKILNKILANRIQQHIKKLI HHDQVGFIPGRQGWFNICKSIN VIQHINRAKDKNHMIISIDA EKA FDKIQQLFMLKTLNKLIGDGT FKIIIRAIYDKPTANIILNGKKLEA FPLKTGTRQGCPLSPLLFNIVLE VLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLISNFSKVSQYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDANKWKNIPCSW VGRINIVKMAILPKVIYRFNAIPI KLPMTFFTELEKTTLKFIWNQK RAHITKAILSQKNKARGITLPDF KLYYKATVTKTAWYWYQNRD IDQWNRTQPSEITPHIYNYLIFD KPDKNKQWGKGSFNKWCWE NWLAICRKLKLDPFLTPYTKIN SRWIKDLNVRPKTTKTLEENLG ITIQDIGMGDMFMSKTPKAMAT KDKIDKWDLIKLSFCTAKETT

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14436	44804	A	14522	782	3024	SKTVPTGNSLEPTQNCWLQQW LPQDIEIEKQEQT/HSKASRRQEI TKIGAELEEIEETQKTLQKINESR SWFFEKINKSDRPLARLIKKKR EKNQIDAIKNDKGDITDPTEIQ TTIREYCKHLYANKLENLEEMN KFLDITYTLPRLNQEEVESLNRPI TGSEIEAIINSLPTKKSPGPDGFT AEFYQRYKEELHINRTKDKNH MIISIDAEKAFDKIQRFMLKTL NKLVLVFLARAIRQEKEIKGVQ LGKEEVKLSLFADDMIVYLENP IVSAQNLLNLISNFSKVSGYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKRIKYLGIQLTRDVKD LFKENYKPLLNERKEDTNKWK NIPCSWVERINIVKMAILPKVIY RFNAIPIKLPMFTFFTELEKTTLK FIWNQKRARIAKSILSQKNKAG GITLPDFKLYYKATVTKTAWYS YQNRDIDQWNRTEPSEILPRIYN YLIFDKPEKNKQWGKDSL FNK WCWENWLAICRKLKLDPFLKP YTKIKSGWIKDLNVRPKTIKTL EENLGITIQDIGMGKDFMSKTP KAMATKAKIDKWDLIKLSFC TAKETTIRVNRQPTEREKIFATY SSDKGLISRIYKELKQIYKKRTN NLIKKWVKDMNRHFSKEDVYA AKKHMKKCSSSLAIREMQIKTT MRYHLTPVRMAIHKSGNNRITI VLLPGSLIVRSFHVTLNAILLHP
14437	44805	A	14523	1	1701	
14438	44806	A	14524	1	4434	
14439	44807	A	14525	1	2913	MGGPAALCIAVVPGLVVALC LEEGLGSGIATWACSPWRISQG THLTFRSSLAVAAIPEGLPIVVM VTLVLGVLRMAKKRVIVKKLP VETLGCCSVLCSDKTGTLTANE MTVTQLVTSGLRAEVSGVGY DGQGTVCLLPSKEVIKEFSNVS VGKLVEAGCVANNAVIRKNAV MGQPTEGALMALALKDQEDIY FMKGALEEVIRYCTMYNNGGIP LPLTPQQRGAGPGDTALPSAAS AFARMSAAERNDAFQG

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14440	44808	A	14526	1	3009	MGDFNTPLSTLDRSMRQKVKK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEITNYLSDGS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWVPNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLELEKQEQTHSKASRRQE ITKIRAELEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
14441	44809	A	14527	1	4800	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRAEITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVNNEMKAEIKMFF ETKENKDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLELEKQEQTHSKASRRQE ITKIRAELEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
14442	44810	B	14528	1	2901	
14443	44811	A	14529	569	3443	RKH*TWKRTSSTSHHKMNPN* LEKQEQTHSKASRRQEITKIRAE LKEIETQKTVQKINESRSWFFER SNKIYRPLSRLIKKKREKNQIDT IKNDKGDTTTDPTEIQTIREYY KHLANKLENLEEMDKFLDTY TLPRLNQEEIESLNRPIGTIVT IINSLPTKKSPGPDGFTAIFYQR YKEELVPFLKLQFQIEKEGILP NSFYEASIIIAKPGRDTTKKEN FRPISLMNIDAKILNKILAKRIQ
14444	44812	A	14530	3591	8157	TGTSQKKTTFMQPKKHKMKCST ITGHQSNANQNHNEIPSHTKLE WRSLKRSGNNRDVGNVVEAM YGDLPPIMLIGHSMGGAIAVH TASSNLVPSLLGLCMIDVVEGT AMDALNSMQNFLRGRPKTFKS LENAIEWRNIKDLWSADSIKNV AAASLACISGALPASAVTTSPD NKRMAENVLKYERLLAESPNH VVAEAVIQRPNIPLQTRDTYPE GLCQTLGSQPTLYQIPSLYCSYE TNSNAYLLLQPIRKEVI

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14445	44813	A	14531	172	328	AVKTEPEMKSQATKLSVVHEK KSQEGKPKEHTEPKSLPKQASD TGSNDAHNIKAVSR*SHRQPSC LWFMKRNPKKESRKNTQSQKA YPSRHQIQEVTMLTI
14446	44814	A	14532	3	660	TSPDCWEEGRSVDWPRPGPALS LHNCKLDLGIEGGTLQPPTPSF* PTGTRAV/PTRRRSRQETQLNSE RTVSPGSR**EKRTSRAW/RSPL QGP GPGHAGQVAGGTGPRTGS TRGD/TLQKCGKIQSVPLNCELI PI*/PSILKPKVLPSCSPGIGASS\ CPSD*VFFCTS*PWPLYLSYPLS MNFYRYHDHILKLLVQYTLYL LLQFLQVLLKYLLSHPKQHS
14447	44815	A	14533	1	1086	MVDNDVPWPLVVAQEKGPDP LCLSSKGYRPLALVQLDFHQVS VTSKIFILSGALRSLTGAATAD WTCRVLVIYPHDIMADSECNSL LVPSTTRKIMKHMLASEKIKTQ NFNYNVDECVSLLYHHKANKL EAAEARQECCELLRVASVSRHC W/RDPAHPHSCWPRC*APHCLG PARAPNARPAKPATTWNLRSSR APCAAPVPTQSWAGAPSGTAG AEPS*ECRPPENQARTAGSGVH AEACAPATCPACPGPGPCSGLP SSGRALFLL/CATLAIPCV*V*LC FLATPPPCR*HVTAPSAGKCIW* PDA*VTK/PRDLCGPVQVARDN GPRQVAQKKESSSYVSWFGTFI SRVGDRSPPPRAATL
14448	44816	A	14534	23	506	PDIDNIFSEFGAKSKPYLTVDQ MMDFINLKQRDPRLNEILYPPL KQEQVQVLIKEYEPNNSLARKG QISVDGFMRYLSGEENGVSPE KLDLNEDMSHPLSHYFINSSH TYLTGMNFLVLCYFSQSHQISP TSTFCCSEAEV/WFSSISCEVPLR TLGFHH

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14449	44817	A	14535	341	1248	KNAFTSFLTSFPPGQISVDGFMR YLSGEENGVVVSPEKLDLNE SQPLCFMGIWGLFCWCFIAGQL AGNSSVEMYRQVLLSGCRCVE LDCWKGRТАЕЕЕРVКILAY*ІY MCSHF*EVIEAIAECAFKTSLP TFLLLFLFSLSPKQQAКMAEYC RLIGSSIFKEYAFHFY*LESGVPL PSPMDLМYKILVKNKKKSHKS SEGSgKKKLSEQASNTYC*NGD MMICY*NLТGEADTESDADDS GNV/CLFYSYFQGTAGSEAMAT EEMSNLVNFLTFFVLLLLNSE RNKSFEМSSFVETKGL
14450	44818	A	14536	574	647	C*PGNM/HISGQHLVAGEKEAE SEDEEEEDMKLLGTPEGGSKFT QKKVKLAADEDDD/DDDADDD DDDDDDDDFDDEETEEKAPV
14451	44819	A	14537	3	630	PGATHASAPPGVLRKCGSGPV HIIGQHLVAVEEDAQSQDEEEE DVKLLSISGKRSAPGGGSKVPQ KKVKLAADEDDDDDDEEDDD EDDDDDDDFDDEEAEQAPVKK S\RDTPAKNAQKSNQNGKDSK PSSTPRSKGQESFKKQEKTPKTP KGPSSVEDIKAKMQASI/EKKG GSLPKVEAKFINYVKN\CSRMT DQEAI\QDLWRWRRSL
14452	44820	A	14538	1	1971	
14453	44821	A	14539	316	1169	RVGGQSHGTQRISLCRHSVCSP LARQSPSNMK*VRTEEIQMAVS CYLKRWQYVDSG\PLKQGLR LPQTAEELANLTVHRESHCAD IVSAVPICQAEPQQYE\QFGRL RNFLIDSDSPHSHEVMPLLYPLF VCLHLSLVQNSPKSTVESFYSR FHGMFLQKAS\QKGVIEQLQTT QTIQDILSNFKLRAFLDN NYVV HLQEDSYNYLIHYLQSDSYTAL CKMFILLIHLDVQPAKTTD*QL YASGSSSRSENNYLEAPDMPSPI LQNDAALEVLERIKQVKDGC PSLTTVCFYNT*QLLNTAEISPD SKLLAAGFDNSCIKLWSLQSRK LKSESCQVDMSRIHLACDILEE
14454	44822	A	14540	1	297	

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14455	44823	A	14541	2	1089	APLLGECRSGRGLASSRSRRRT TMTQSVVVQGKLRRAGRDLVA AESSGHVSLMSYSLSFLSSGRS RLALREHA AVNQVPARRREPPR LSARSSSPYSFHLQSE*L*KKIH* LYFIFLSQAVLIDMEEGVVNEIL L*IRTNQIKK*MQGIFKIHLIFR AVGHKVFGSLYQDQILEKFQIL HNYILNHL C*FLKTL*SSGTGSG LGTFLK VLEDEFPEVYRFVTSI YPSGEDDVITSPFLVEYHLHPLF LIASLPMFFPQKSLFDIISKIDLM VNSGKV/GGTTVKPKSL\VTSSS GALKIELHLKCIHLKLKIFSF*C* LFSSARFEGSLNMDLNEISMNL VPFPSS*EIVSLKYVLYFN
14456	44824	A	14542	129	461	TCISGWHLFRASVTCPGIQTSPH NWHISDNSSLPNNIFIVCWNL GMTRNYIIFIEQPLKMNLWKIA TSKIRGKAFSDGIS\GNPQCNT RFHVVEKRTGQLLPGRYYSKPF
14457	44825	A	14543	1	522	
14458	44826	A	14544	1	927	MEDLLTEARSPYWGRARAKIQ DSCWSVTSDPNAGSVDILAPLL LPSPSSYLPNFTCTVSVVTSHLH EAFLDLGFRGTGGSNCKTSRQV QLNNQKRKKKSKSLPFHMSL QIQNYKTQEPPHAKPSSQQHQH SEHESIQTCLVFRSSMTYMHTL KLIREKGSIMLSSTQGECPNSTC RWPAAEHPLGSTHREDQEHVIR VPPEKVDLGETIHGVQVICSIAS TEKGKPSYYHSFGMTRNYIIFIE QPLKMNLWKIATSKIRGKAFSD GISWEPQCNTRFHVVEKRTGQT T*INPDKISIQKHDIHAYIEAD KRKRKHNAVIHTG*M/YQI/GTC RWPAAEHPLGSTHREDQEHVIR VPPEKVDLGETIHGVQVICSIAS TEKGKPSYYHSFGMTRNYIIFIE QPLKMNLWKIATSKIRGKAFSD GISWEPQCNTRFHVVEKRTGQI LNVKTMRMKTFMMIYYHLMN

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14459	44827	A	14545	1	882	MAEILTQVPDDMLKKKTPRVK SVWRSQRGSCTPLIGTTELTD TSHMSIRNMDRSHINVHTVRKP SADLPYFRTHEWAHTGGKPYD CEECGKSFISRSSIRRHIMHSG DGPYKCNFCGKALMCLSLYLIH KRTHTGEKPYECKQCGKAFSH SGSLRIHERTHTGEKPYECSECG KAFHSSTCLHAHKITHHTGEKPY ECKQCGKAFVSFNSVRYHERT HTGEKPYECKQCGKAFRSASH LRTHGRTHHTGEKPYECKQCGK AF*PRFQMT*RRKLPE*NQCG EVSUGH\HSLNRHHRADTGHKP YEYQEYGGQPKYKCTYCKKAFS\ YLPYFRTHEWAHTGGKPYDCE ECGKSFISRSSIRRHIMHSGDG PYKCNFCGKALMCLSLYLIHKR THTGEKPYECKQCGKAFSHSGS LRIHERTHTGEKPYECSECGKA FHSSTCLHAHKITHHTGEKPYEC KQCGKAFVSFNSVRYHERTHT GEKPYECKQCGKAFRSASHLRT HGRTHHTGEKPYECKQCGKAFG CASSVKIHERTHTGEKPCSSNTS
14460	44828	A	14546	3	395	SAEVGAAETTLTELRTVQSLEI DLDSMRNLKASLENSLAGILLHL ESELAQTRAEGQRQAQEYEAL LNIKVKLEAEIATYRRLLEDGE DFNLGDALDSSNSMQTIQKTTT RRIVDGKVVSETNDTKVLRH
14461	44829	A	14547	2	1044	AKTSSQMPSPQEGMCGKACTP ALSQADSLCPLLRLASEVEGYS LPACAEPYVQSECLSHLSVWSL QHALSSLASMSFTTCSAFTNYW SPGSVQVPSYGTQPVSHAASVY AGLGGSGSRISVSHFTNG\GGLA GMGGIQNEKETMQSLRDRLAS YLDRVRGLETENWKLESKIQEH LNVTRL*LETEIEALKKELLFM KKNNEEEAKGLQAQIASSGLTV EVDAPKS/QDLAKNMADSRAQ YDKLARKNREELDKYWSQQIE ESTRVVTTQSAKVGAEMTLT ELRHRVQSLEIDLSTRNLKAS LENSLREVEARYALQMEPSLLF SKIIFGRVWEISYLHVFEKGQV

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14462	44830	A	14548	1	1212	GPGTGIAGGLAGMGGIQNEKET MQLNDRLASYLDRVRSLETE NRRLESKIREHLEKKGPQVRD WSHYFKIIEDLRAQIFANTVDN ARIVLQIDNARLAADDFRVKYE TELAMRQSVENDIHGLRKVIDD TNITRLQLETEIEALK*ELLFMK KTPEEEVKGLQAQIASSGALTVE VDAPKSQDLAKIMADIRAQY DELARK\NREELDKYWSQQIEE STTVVTTQSAEVGAAET\TLTEL RRTVQVFGDSTWTSMRNLKA\ NLENSLAGEVEARYALQMEQL\ NGILLHLESQLGQTPRTEAQRQ AQE\YEALL\NIKVKL\EAIEICHL TRPPSWKIGEDFNL\GDS\LDER NSMQTIQKTTTTRISWIGQSGV LRPIDTKVLEALSQQEASGTL GKQEANKKFQSFK
14463	44831	A	14549	1	2382	
14464	44832	A	14550	2	173	
14465	44833	C	14551	1	732	
14466	44834	A	14552	455	682	AWKRAVALGKSRPMGAVAFK RRMQPVAGPRAMQEKPFPSSSS SLSIPPAF*YRLALS LAEPSRRW RARTGALMQL
14467	44835	A	14553	158	368	
14468	44836	A	14554	87	251	
14469	44837	A	14555	1	1026	
14470	44838	A	14556	201	578	
14471	44839	A	14557	336	767	AFVRAGSRFGGTPGARPDPA TRAPNPVGQSRHLRAASSRGRL FLRRTRDRKFRRPRLSRLLG AI/GCRWNQPRAAEKSFSAGAV LDFSPGLSCLPAVQGS GPAARH A*ASHPLHGLCCPSIPDEHHPL LHGAQSHRPPKG
14472	44840	A	14558	6	535	ARHRVLIGVFTIPELDILSTSPD SGAQLASPSDPAPGLQVELPAS PARCARIPQPLGGRWDWAQTQ EPSWLHLVEPAPGLQVELPASP TPCACIPQLGDRWDWAPWSR GWCSLGRLGPHRSPWSGWEAE AWRAAGPEPCPTGRQLRLGEK SSAAPVGWHCWGTQYTLRSH WPGC
14473	44841	A	14559	375	638	
14474	44842	A	14560	92	514	

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14475	44843	A	14561	54	380	SCHHYCRIHRRCARFLAGP*LPS RGARLGTCSPPCVSLPPAPWAP VRPEPPRRAPPPAPQRPVPSTTQ GLRSAGARRGTGRQLHLQLRG SAASFLKSVRPRTHQFRTH
14476	44844	A	14562	531	773	
14477	44845	B	14563	92	1774	
14478	44846	A	14564	1	390	LHDLQLSKPLSDDTALT DGG/Q PLPARWWAQPGRLQRCARFLA GP*LPSR/WGRARDLQ PAMPEP PTPSVGSCAAQASPTSAAPCSM APSPIDHPRAWPVLC SFCMLLS LFVASISSCSQHQP MQVGT MVC L
14479	44847	A	14565	165	545	SLHSLCWWLQQLWVTDTCPR CSVQDCRQRWASAGNQS*RLL VDPAPGLQVELPANPVPCARIP QPLGGRWD*APWSRGWCSSGR LGLHRSPWSGWEAQAWRAAG PEPRPAGRQLGAM SCKVETGT
14480	44848	A	14566	1	309	SACLAGRPIRGEGRPRLQ PAM PEPPTPSMGSCAARASPTSATPC STAPSPIHHSRAEECGHTALG/H GRQLHLQPRNLPQTINWRTTYS SFPATLNRLDGGG
14481	44849	B	14567	1	843	
14482	44850	A	14568	143	535	
14483	44851	A	14569	375	571	
14484	44852	B	14570	289	972	
14485	44853	A	14571	27	363	
14486	44854	A	14572	2	490	
14487	44855	A	14573	574	961	RLTLPDRLGSPPDTHQAQQITW ALLPQGFADSPHYFSQAQISSSS ITYLGILHENTRALPADHV*LIS QTPISSTKQQLLSFLGMVRYFC LWIPSFTILTKPLY*FTKANLAD PTDPKSFPHSSFRSL
14488	44856	B	14574	182	1513	
14489	44857	A	14575	894	1305	QTQEPSWLHLVDPALGLQVELP ASPVPCARIPQPLGG*WDWAP WSRGWCSSGRLGPHRSPWSGW EAQAWRAAGPEPCAGRQLRP GQHPL/RHMNKSQALSLLIAQP LGINLLSWPPKYNRPVPLIGL SGLLIPATF
14490	44858	A	14576	531	801	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
14491	44859	A	14577	441	783	RAPPPAPWRPVPSTTQGLRSAG EQRGTGRQLHLSAAPVRDPRG EAIWAPESGRSAASILKPARPPA HREERTTPDAPP*EL*HSPRRSA ASLREDPWLHS*SQ*DQEPTNS GHTVSQDQSYYS*LEVSETKNP PIPDTL
14492	44860	A	14578	344	1632	FLAGPYLPSHGAGLGTCSLPCL SLPPTPWAPVRPEP/PPMSTTPCS TAPSPIDHPRAEECERTAQDWQ AAPPAAPVWDPLGEASWAPES GTNISITPGNATFVTRVQQQAW FASCITGHDMSSLKTSSVVVLR RQSEALLPANLTCNWQDSSAL ATLESALSQVRHKRFTFTLMVF TGSAIDIMATVSI VVSITESVQ TTAFVDNLAKNICDELLQDM DEAGNQHSQQNNTRTENQTPH VLTHKWELNNENIRIQGGEHYI LGPVGGRDEKTLLLRITYCLKSQ EGADTKCRNKHNETQKQSKS LVYSSTLNPEKLLVCKRLSLEL TRPENTLRCTNIGKLKAVAGG MSAASGIYLETDTQPYPLKQEL KEIKECVGKNSVVVFLVRKK LSVSQYAFARCLDAKHSTSENV EIAGKLRIQSFEVVGKQL

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14493	44861	A	14579	3	2233	NWLPSVSRQCETHKIAANQSLT QRQMPLTSLYCDVVLVPSVGL ESLQSPYYRTSPCDPVSQFCLIK ISASSLPVLSLWKTLLKNAQSYQ RDYRHDNKAHYFQKLVTMQE NLYVLLCDEELDAVSLEAVHQ QKMKNRQAHSSSGCCQKVAN APRNEESSGQFRVIGNEKFEKG PCGVRQQIFEKVLLPNRTCEFV TPRFNRNFEDLIKDLKAAETLID FLVYEPKNQRRLLVNRFLPCKL LHNLGHPLKTDAAQSPRKPPGP SWMPSPFGSKPPSHPLVSPHLNP QVWDTSSPSLATEHASLTISLKP NHPYPAQSQYSIPQHALKGSKP VITRLLEHGLLKPINSPYNSPILP VQKLDKSYRLVQHLCLIYQIVL PIHPMVPNPYTLSSIPFTTHYS VLDLKHAFFTIPLYSSQPLFAF TWTDPDTHQAQQITLAVLPQCF IDSPHYFSQAQISSSSVTYLGIL MKTHIGLGAVEQGVVLVGEAR AAQEPMEWVGSGM/CGLQVP SPAPWEGS*GPARNRAQ\PVTIV PVLDFNPAPHIIPDTTPDHDCI SLIHLTFTFPFHISFFPVPHLEHT WFIDGSSTRPNCHSPAKAGYAI VSSTSIIEATALPRSTTSQAKLI AYTDSKCAFHILHHHAVIWEER NFLTMQGASINAFLIKTLKDI LLPKEAGVIHCKGHQKASDPIT QDNAYADKVAKKQLAFQLLSL
14494	44862	A	14580	1	642	SGTVPPTFVRTVIQAQGARTVI QQSLIGSLYIFRHCVRQCQIESV FVIIIWSRVGYDEKGFCLFTSVL GVWGHVVRTKPCLLITWRTLKS RSGLE*PAGFSSSPGTSPQIRKQ KRGVPQHPVCDLPGRFRPRAGT PLAAQIQVPGLPPCGHQE*NRR WAGSSALCPPYLCARAGTGAV CRACEPAGV/AGWAWAWWAP HSEHAASPAGPRQWGT
14495	44863	B	14581	393	549	
14496	44864	B	14582	1	591	
14497	44865	C	14583	226	828	
14498	44866	A	14584	1	1362	

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14499	44867	A	14585	1	585	MANVHQTMPMRLRKLPSFKP PEPKSNSQRVSTEAGTAGALTP QHVRHSSPASLQLGAVSPGTL TPTGVVSGPAATPTAQHFQQSS FEIPDDVPLPAAREMAKTSSGQ RYFLNHIDQKTTQQDPARKTML SQMNVIANPPVQQNMMNS\PQS PQGGV/MGGSNSNQQRQMRPQ QLQMEERLQLKQQ*LLQQELALR
14500	44868	A	14586	345	1053	RWRLQNLSFCSSCSGSGSEGAT CFARGRQQSNLQSKIKFPSNTD SRSTGYNSFDRQPNICFYKRQE TPHTGPHPVPEGRPYMPG*CG A*SPGPFASRN*SEKN*SYKCSL HTAFNVIFSSVI**RYCTRQWHI VKCLDSFCDFLISDELRRASTD AGTAGALTPQHVRHSSPASLQ LGAVSPGTLTPTGVVSGPAATP TAQHLRQSSFEIPDDVPLPTSW GEAKTSSGSKIPF
14501	44869	B	14587	607	1185	

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14502	44870	A	14588	1	2142	MIILIDAEKAFDKIQPFMLKTL NKLIGIDGTYLKITRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLAQAIQEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNKIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGEHTLGPV VGWGKRGGIALVDIPNVNDKL MVLEVLAIRAQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLISNFSKVSGYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNIP CSRIGRINIMKMAILPKVIYRFN DIPKLPMTFFTELEKTTLKFIW NQKRACIAKTILSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSHIYNH LIFYKPDKNKKWGNDSLFNKW CWENWLAICRKLKLDPFLTPYT KIHRSWIKDLNVRPKTIKTLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVIKLSFCTA KETTIRVSRQPTWEKIFAIYPS DKGLISRIYKELKQIYRKKVTNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCSSSLVIREMQIKTTM
14503	44871	B	14589	1	1647	
14504	44872	B	14590	1	2025	
14505	44873	B	14591	4	2121	
14506	44874	A	14592	2	1879	
14507	44875	A	14593	1	2130	
14508	44876	A	14594	1	3018	
14509	44877	B	14595	1	3171	

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14510	44878	A	14596	1	2700	MEKKQSRKTGNSKNQSASPPP KECSSLQATEHSWMENDFDEL REQGFRRSNYSELKEEVRTHGK EVKNLEKRLDEWLTRITNAEKS LKDLMEKTMARELLDECINLS SQFDQLEERVSVMENQMNMENK PNLRLIGVPESDGENGTKLENT LQDIIQENFPNLARQANIQIQEIQ RMSQRYSSRAIPRHIIVRFTKV EMKEKMLRAAREKGRVTLKG KPIRLKADLSVETLQARREWGP IFNILKEKNFQPRTSYPGKLSFIS EGEMKSFTDKQKLRVFTTRP ALKELLKEALNMERNNRYQPL EKQIQTTIREYYKHLANELEN LEEMDKFFDTYTLPRLNQEEVE SLNRPITGFEIEAIIINSLP/TKKSP EPGGFTAIFYQRIEKEGILPNSF YEASIIIMLKPGRDTTKKENFRP ISLMNIDAKILNKILANRIQQHI KKLIHQDQVGFIPGMQGWFNIR KSINIIQHINRTNDKNHKKIISIDA EKAFYKIQQPFMLKTLNKLKLGID GSYLKIIIRAIYDKPTANIILNGQ KLEAFPLKTGTRQGCPLSPLLF NLVLEVLARAIRQEKEIKGIQLG KEEVKLSLFADDMIVYLENPIA SAQNLLKLKGNFSKVSQYKINV QKSQAFLYTKNRQTESQIMSEL PFTIASKRIKYLGIQLTRDMKDL FKENYKPLLNEIKEDTNKWKNI PCSWEGRISILQMAILPEVIYRF
14511	44879	A	14597	1	2310	
14512	44880	A	14598	1	1305	
14513	44881	A	14599	1	2148	
14514	44882	B	14600	1	777	
14515	44883	A	14601	2	2971	
14516	44884	A	14602	1	3810	

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14517	44885	A	14603	1	1773	MNIGAKIINKILANQIQQHIRKLI HHDQVGFIPGMQGWFNICKSIN VIQHINRTKDKNHMIIISIDAEKA CDKIQQRFMLKTLNKLIGDGKY LKIIRAIYDKPTANIILNGQKLE AFPLKTGTRQGCPLSPLLFNIVL EVLARAIRQEKEIKDIQLGKEEV KLSLCADKMIVYLENPVSAQN LLKLISNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLQIHQTRDVKDLFKEN YKPLLKEIKEDTNKINIPCSCVG RINIVKMAILP/KELEKTTLKFIW NQKRARITKSILSQKNKAGSIM LPDFNLYYKATVSKTAWYWY QNRDIDQWNRTEPSEITPHIYN YLIFDKPEKNKQWGKDSL FNK WCWENWLAICRKLKLDPLLTL YTKINSRWIKDLNVSPKTIKTLE ENLDITIQDIGMGKDFMSKTAK AMAAKAMSTKAKFGKWDLIK LKSFCTAKETTIRVNRISYASS STSLQAFSRKILNCSKRFFKIAQ MCKLVELRPQDMHTSRGSGNC SEARTLLCDFSAGRTSVNHGRI WRQIREAGAADPEIGLEV CNKN PTSFTLFYFLSYTTG
14518	44886	B	14604	1	2070	
14519	44887	B	14605	1	3190	
14520	44888	A	14606	1	3370	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
14521	44889	A	14607	569	3030	RKH*TWKRTSSTSHHKNMPN* LEKQEQTH/SKPSRRREITKIRA ELKEIETPKTAQKINESRSWFSE RINKIDRPLARLRKKKREKNQI DTIKNDEGDITTHPTEIHTIIREY YKHL YANKLENLEEMDKFLDT YTLPRPNQEEVESLNGPIAGSEI QAIINSLPTKKSPGPDGFYQRYK EELVPFRLKLFQSIEKEGILPNSF YEASIIIPKPGRDTTKKENFRPI SLLNINAKILNKILANRIQQHIK KLMHHDQVGFIPGMQGWFNIR KSINVIQHINRTKDKNHMIIISID AEKAFDKIQPFMLKTLNKLGI DGTYHKIIRANYDKPTANIILNG QKLEAFPLKTGTRQGCP LSPL FNIVLEVLARAIRQEKETEGIQ LKKEEVKLSLFADDIMIVYLENPI VSAQNLLKLISNFSKVSGYKIN VQKSQVFLYTDNRQTESQIISEL PFTIASKRIKYLGIQLTRYVKDL FKER/YNEIKEDTNKWKNI PCS WVGRINIVKMAILPKVIYRFNAI SIQLPMTFFTELEKTTLKFIWNQ KRAHIAKSILSKKNKAGGIMLP DFKLYYKATVTKTAWHWYQN RDIDQRNRTEPSEIMPHVYNHLI FGKPDKNKQWGNDSLFNKWC WENWLAICKKLKLDPFLTPYT KINSRWIKDLNVRPKTIKTLEEN LGNNIQDIGMGKDFTSKTPKA MATKDKIDKWDLMKLKSFCTA
14522	44890	A	14608	1	2742	
14523	44891	A	14609	1	3828	
14524	44892	A	14610	1	2667	
14525	44893	A	14611	1	2325	
14526	44894	A	14612	1	3057	

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14527	44895	A	14613	603	2973	DNTARGETIRQQHLLFTNIRCSA ASAADTQANRVWSGPPANSNR PAAIRVLTVRRKTNKQKGHPH QNPICSPSSKTKETQTTIREYY KHLNANRLENLEEMDKFLDTY TLPRLNQEEVESLNRRITESDIE AIINSLPTKKSPGPDGFTAIFYQ RYKEELVPFLLKLFQSIEKEGIL PNSFYEASHILIPKLGRDTTKKE NFRPISLMNIDAKILNKILANRI QQHIKKHIHGQVGFIPGMQGW FNIRKSINVQHINRTNDKNHMI VSIDAEKAFDKIQPFMLKTLN KLGIDGPYLLKIRAIYDKLTANII LNGQKLEAFPLKTGTRQGCLLS PLLFNIVLEVLRARIRQEKEIKGI QLGKEEVKLCLFADDMIVYLE NPIVSAQNLLKLISNFSKVSQYK INVQKSQAFLYTNNRQTESQIM SELPFTIASKRIKYLGIQLTGDV KDFFKENYKPLLNEIKEDTDKW KNIPCSRVRGRINIMKMAILPKVI YRFNAIPIKLPMTFFTELEKTTL KFIWNQKRARIKSILSQKNKA GGITLPDFKLYYKATVTKTACH RVGRAQQHSISKWKWYIHDWS QVGPEGTNSARYPDTTQKWT AAALQPLSRTSLKDSHEGKSSQ WAE LRAVHLVLRFAWKEKWP DVQLYTDSWAVASGLAGWSG TWKKHDWKIGDKIEWGRATPV IAQWAHEQRGHGGRDGDYAW
14528	44896	B	14614	1	3105	
14529	44897	A	14615	1	3654	

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14530	44898	A	14616	735	2839	RSFPRS RPSPFLLSRYLRIH MV FSVLPFGLQNP KYLLSGSLQEK FRTPGINSHKTLDPNRV IIKVRR RLEKEKALRAYVGKSEVRNMH LRERCKL*KKREKNQIDTIKND KGDITTDAT EIQTTIREYYKHLY ANKLENLEEMDKFLDTYILPRL NQEEVESLNR PITGSEIEAIINSL PTKRSPGPDGFTA EFYQTYKEE LVPFPLKLFQSTEKEGILPNSFY EASII LIPKPGRDTTKENFRPIS LMNIDAKILNKILANRIQQHIKK LIHYDQVGFIPGMQGWFNKRK SINVIQHINRTNDKNHMIISIDAE KAFDKIQPFMLKTLNKL GIDG TYLKVIRAIYDKPTANIILNGQK LEAFPLKTDTRQGCPLSPLLFNI VLEVLARAVRQEKEIEGIQLGK EEVKLSLFADD MIVYLENPIVS AQNLLKLISNFSKVSGYKINI QK SQAFLYTNNRQTESQIMSELPFT TASKKIKYLG IQLTRDVKDLFK ENYKPLLNEIKEDTNKWK NIPC SWVGRINIMKMAILPKVICRFN AIIKLPMPFFTELETTTLKFIWN QKRARIAKSILSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN RDIDQWNRTEPSEITPHIYNYLI FDKPEKMSIIDTGGWYEAPVSS FFKEGLCRTGTENQVNRQPPAA SPFKVYVSCTGSLHPRPHYFLE
14531	44899	A	14617	1	2250	
14532	44900	A	14618	1	2870	MKA EIKVFFETNENKDTTYQNL WDTFKA VCRGKFIALNAHKRK QERSKIDTLTSQLKELEKQEQT HSKASRRQEITKIRAE LKEIQTQ KTLQKINESRSWFFERINKIDRS LARLIKKKREKNQIDTIKNDKG DITTDPT EIQTTIREYYKHLYAN KLENLEEMDKFLDTYTL PRLNQ EEVESLNR PITGA EIVAIINSLPT KKSPGPDGFTA EFYQSWAETQP KKENFRPISLMNIDAKILNKILA KRIQQHIK

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14533	44901	A	14619	248	2623	RQWAGVVGRCSHLASWVSSNT SETGAIRSSTEVDAPDDSMMLLST CDIDLTAARRAWLGCLPTKKSP GPDGFTAIFYQRCKEELVPFLL KLFQSI/EKEGILPNLFDEASII PKRGRDTTKKENFRPISLMNID AKILNKILANRNQQHIKKLIHH DQVGFIPGMQGWFNICKSINVI QHINRTKDKNHMIISIDAEKAF DKIQQPFMLKTLNKLIGDGTYL KIIRAIYDKPTANIILNGQKLEAF PLKTGTRQGCPSPLLFNIVLEV LARAIQKEKEIKGIQLGKEEVKL SLFADDMIVYLENPIVSAQNLL KLISNFSKVSAYKINVQKSQAF LYTNNRQTESQIMSVFPFTIASK RIKYLGIQLARNAKDLFKENYK PLLNEIKEDTKKWKNIPCSWVG RINIVKMAILPKVIYRFNAIPIKL PMTFFTELEKTTLKFIWNQKRA RIAKSILSQKNKAGGITLPDFKL HYKITVTKTAWYWYQNRDIDQ WNRTEPSEITPHIYNLIFDKPE KNKQWKGKDSL FNKWCWENWL AICRKLKLDPLTPYTKIHPRWI KDLNVRPKTIKTLEENLGNTIQ DIGMGKDFMSKTPKAMAACA KIDKWDLIQLKSFCTAKETTIRV NRQPTKWEKIFATYSSDKGLIS RIYKELKQIYKKKTNNPIKKW AKDMNRHFSKEDIYAANKHM KKCSPSLAIREMQIKTTMRYHL
14534	44902	A	14620	1	3253	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQGDLDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKWKRTEITNYLSDH SAIKLELRINKLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAHKKRQERSKIDTL TSQLELEKQEQTHSKASRRQE ITKIRAELEKETQKTLQKINESR SWFFERINKIDRPLARLIKKRE KNQIDTIKNDK
14535	44903	B	14621	1	2758	
14536	44904	A	14622	1	5178	

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14537	44905	A	14623	1	3382	MGDFNTPLSTLDRSTRQKVNK DTQEFNSALYQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCERTEIITNYLSDHS AMKLELRIKNLTQNCSTTWKL NNLLLNDYWVHNEMKAEIKM FFETNENKDTTNQNLWDAFKA VCRGKFIALNAHKRKQERSKID TLTSQKLEKQEQTHSKASRR QEITKIRAELEIETQKTLQKIN ESRSWFFERINKIDRPLARLIKK KREKNQIDTIKNDK
14538	44906	A	14624	965	4091	TWKGTTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDIY RTLHTKSTEY/TFFSAPHHTYSK IDHIVGSKALLSKCKRTEIITNY LSDHSAIKLELRIKNLNQSRSTT WKLNNLLLNDYWVHNEMKAE IKMFFETNENKDTTYQNLWDA FKAVCRGKFIALNAHKRKQERS KIDTLTSQKLEKQEQTHSKA SRRQEITKIRAELEIETQKTLQ KINESRSWFFERINKIDRPLARLI KKKREENQID
14539	44907	A	14625	3	3229	
14540	44908	B	14626	1	2791	
14541	44909	A	14627	1	3158	MVKGSIQQEELTILNIYAPNTG APRFIKQLLSDLQRDLDSHTLIM GDFNTPLSTLDRSTRQKVNKDT QELNSALHQADLIDIYRTLHPK STEYTLFSAPHHTYSKIDHILGS KALLSKCKRTEIITNYLSDHSAI KLELRIKNLTQSRSTTWKLNNL LLNDYWWRKQERSKTDTLTSQK KELEKQEQTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERINKIDRPLARLIKKKEKNQID TIKNDKGD
14542	44910	B	14628	1	7849	
14543	44911	A	14629	1	3985	MENDFDELREEGFRRSNYSEL WEDIQTKGKEVENFEKNLEECI TRITNTEKCLKELMELKTKARE LHEECRSLRSRCDQLEERVSAM EDEMNMKGEGKFREKRIKRN EQSLQEIWDYVKRPNLHLIGVP ESDGENGTKLENTLQDIIQENFP NLARQANVQIQEIQRMPQRYSS RRATPRHIIVRFTKVEMKEKILK AAREKDRSTRQKVNKDTQELN SALHQADLIDIYRTLHPKSTEYT FFSAPHHTYSKID

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14544	44912	B	14630	64	5735	
14545	44913	B	14631	891	6894	
14546	44914	A	14632	33	476	
14547	44915	A	14633	1	360	GQGEPKQLGRHPGVLRPHVVS AKTGDAC/IWTQVRNLFPERPK VQWKEGCALQSGNSQESVTEQ GSKVSAYSLSPLTLISKADYEK HKLYACEVTHQGLSSPVTKSFN RGEIIEGEVPPCI
14548	44916	A	14634	40	508	LPGECHRAGQQGQRLQPQLLG LLMLWVPGSGGEIVMTQTPLSS SVTLGGPASISCRSSQSLVHSDG NTYLTWLQQRPGQPPRPLIYHV FKRFSGVPDRFSGSGAGTDFTL E/ISGRVEA* ^Δ DVG VYYCMQG\T QFPCSFQGGTKLETKRTVAAPS
14549	44917	A	14635	3	652	AWWNSETPAQLLFLLLWLPHY TSGEIVLTQAPGTLSLSPGERAT LSCRASQTIGSTYLAWYQQRPG QAPRFLIYGASSRATGIPDSSSSS SSSSSSSSSSSSSSSSSSSSSQQ YNNWPPGGTFGP\GTKVEIKRT VGCTHLFFIFPAHLMSQLKIWE LPSACVPVCNNFYPREVQSYSG KVDN/VPSNRVTPRESVTEQD\S KDSTLQPSAATLDA
14550	44918	A	14636	3	440	
14551	44919	A	14637	457	1270	SRRVSFPPSA*QAVSDPSRQQLP SLRLRWGPPEGRSFPANLGRGV RWVGGRDPLAA\LP*SSGPLNA GRLFARPQESGAPRIGNVRDVP RAREDVGTQAGRREREFRLFG PAAVVGGERHLSPPFRAAGAG GRAGAAGRRSAPPGGLGSCRSC RISAGPHGNDVPTLGGRGW/PL *NSGAEKL*EQ*G*/TGTGSWSL AAILGGVPREP\GFRGAGRET LG PRGWL VMLSRAVLLH SVLLCT CHSSWVLLHSDLACHADNNPD IQSCLFPMSKY
14552	44920	C	14638	90	465	
14553	44921	A	14639	116	439	
14554	44922	C	14640	278	364	

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14555	44923	A	14641	116	687	EIKDAALQLPLWRAQDRERAM KERREKREREREKERDREKKRK EKMFCRKSCHTIMEPTPELSCV LPCLAPIVLAPPPLPLPVLPYPY ATR*LPQQNRQSTLTEAHGLVTR GPITLATNRCMPSTTRDRRLT PPSTLPNTTNLSWGVREGPNQD PEPSLSPCVPHDPFDYNAESLFS YWLVSVTPTMTAHTP
14556	44924	A	14642	474	1166	HPNRQGLRAPATAPGHPGREQ ALCEAPQGPQGKCGPPRAQEA Q/GTEPRRASRAAGACRHHWP QVA\RPGAGAPAGAARLGGV*E PGRAA/APRLPLPSQCCHR*GTS PAHLSASRSSSATCPWRRTAGR SGPSPCMTL\KQRQGHPRDGWI RAPSCDVTNRGLSSLNLGGS QQLLLASRPLGSGSGALEALEH GKSRA PWEPWLHGTHNPVHGK DPAGSTSHWPRPPAPRT
14557	44925	A	14643	283	806	PRGSFSSTGRTRNAAGSTSNCSL RSLSARIEERKVS RVCGVPNHR HLRLGALTTRPSWNGAIPTLA KLPAKRC*RRSGRRSKTWSFPG ST*LGNFAEEMICAASARPAGV PGPALPTPLRAPLPGVPTSSR GRMCARLSCC/HAGRPVPARPG AARARRAAAGERHRPPALRV
14558	44926	A	14644	1	338	
14559	44927	A	14645	1	1091	MSNDGRSRNRDRRYDEVPSDL PYQDTTIRTHPTLHDSEAVSA DPLPPPPLPLQPPFGPDFYSSDT EIPAIPDLKPVRRFVPDSWKN FFRGKKKDPEWDPKPVSDIRYIS DGVECSPPASPARPNHRSPLNS CKDPYGGSEGTFSSRKEADAVF PRDPYGS LDRHTQTVRTYSEKV EEYNLRYSYMKSWAGLLRILG VVELLGAGVFACVTAYIHKDS EWYNLFGYSQPYGMGGVGG GSMYGGYYTGPKTPFVLVVA GLAWITTIILVLGMSMYRTIL LDSNWWPLTEFGINVALFILYM AAAISLM*MIPTRGGGLCYYP LFP NTPVNA\GSAG*KEDR*LQ*SSC LSP**FISLV LWFA

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14560	44928	A	14646	398	1107	SPGLVCGLLIFCKVTVPICAGPY RCPFGGLRH*SAR*QPPSGLREN GARPPGGEWLCPC*FPP*PLNSR WKLPPRLVT*GEPWAAGEKFP RLGAGTGPAAGEGLPRARDWE PGRAGPERWAPGRGPAGTPAK TAAVKRSAPLPGS\GDYANGER KPPPSRFCQVKSGNL*VLCG*RL SLPAA*KPKKA*RRGRRQSPGK TGYQVQQTRPKNDPKSSIGPSP KNRQSLCLQPLWSFLIQ
14561	44929	A	14647	1	540	MGVRDPLEEAVCALAELQHCA GRFAALFRASRQERLSLLKLCF QLPLPPRALSQGYKPLIGLLAF FQRCTAQRGGI*RGSLATVTLAS CGGLCPV*TSQRRCLPVRGKLP TQASVMANAPPRTLQHLRSTS DCCAGSENFKPVDSLGLSGVG GSTELDHLAPWLQPAFQGSEW FYLTF
14562	44930	A	14648	169	487	EVCYYPSETYFCQFVKLILCPV LFPCWQGVVIQPKLSCMRCLST LLRGVSQ*GYMGVRDPLEEAV CPLAELEHCAGRSAALFRAGRQ ERLSLLKLRPQLPLSPSA
14563	44931	A	14649	1	210	
14564	44932	B	14650	1	1683	
14565	44933	A	14651	1	529	MDSEVQADDEVSDENGELIGN WGKGGMGVSDPLEEAVCPLAE LERSAGRSAALFRASRQECLSL LKLT/LTAAPSPRGTAFRSPFKS PAQRRSIIC*Q/LYSCKTFRSTVA PMPRLCLPQASGKVQ*EN*SWA IPA*QGTSPMCSLCSGAPHQPG APLVLPLPPPVRNRLRRELQCWL
14566	44934	C	14652	295	430	
14567	44935	A	14653	452	637	
14568	44936	A	14654	151	446	MVLSHWHSRCHWGMKKNYLQ LARCLPKWLPSFVFETQGPCDV STQGTLLVYGLQRPWEKHSI*A R*HHPHQHGPSQLPLARGGSSP TPCASRMQRHPT
14569	44937	A	14655	2	335	EDRSAFRPRQPHLHPLHARSL APRSPTPPSPSPDTQLGLSGPTS GPESAPTA/PGNPSWRSSRWGSS SPCAASST*KSPYP*/CSPT/CAFP SPRLPFCRSAYQPAAGAGRCK
14570	44938	B	14656	373	502	

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14571	44939	A	14657	1	400	GSPAPAAMDEERALYIVRAGE AGAIERVLRDYSKVKSPGPGR AVSHPRAAALRACTSHSPPPPSFR GCAL\PPPKTFPAWACVFVPPAF SIHAS/SHPTTPTVAPTPLIPGPA A*PPVLLSSVQVTPPESVDVHL
14572	44940	A	14658	659	1177	ARKGSALLRLYLSNAWCVCVK VLRIFSTASAYITRRDSSLGPVW TFLNFSFGSPGEIPTFFFFPVFP LPLVAWFCPASFCPLQCPLVPS EPSPPPHSGDAHCSPPKTFPAW ACVFVPPAFSIHAS/SHPTTPTV APTPLIPGPAA*PPVLLSSVQVT PPESVDVHLCPVPHS
14573	44941	B	14659	1	318	
14574	44942	A	14660	2	131	
14575	44943	A	14661	354	762	CPEIRPPS*THGTK/SHFPPTASG THSVLEAL/PDTQRQSPRVHQ DPSPAI/PALLSPHEHGPQHLL QLPSHRCHPDTAPFNCDVAVKAC PGHATAALEHPYLSGRQSPSP THLPKLPAGRGYTVCALPKGPG ERSAV
14576	44944	A	14662	157	413	ALVCS/SSLAIEMQIKTTMRYH LTPVRMAIIKKSGNNRCWRGC GEIGTLLHCWLDCKLVQPLWK SVW*FLRNLELEIPFDPAIPLL
14577	44945	A	14663	1926	2448	DFIAVITTRKQLKTKYNAHHSK QAITKHFSPKISDLILCLKKKIM NRHFSKEDIYAAKKHMKKCS SLAIEMQIKTTMRYHLTPVRM AIIKKSGNNRCRRGCGEIGTLLH CWWDCCKLVQPLCKSMWRFLR DL\DPAPILLGIYPKDYKSCCYK DTCTRMFIAALFTIAKTWNQP
14578	44946	A	14664	1	1584	
14579	44947	A	14665	1	4729	
14580	44948	A	14666	1	1566	
14581	44949	A	14667	1	1424	
14582	44950	A	14668	1	576	
14583	44951	A	14669	1	3325	
14584	44952	A	14670	1	2195	
14585	44953	A	14671	1	3162	
14586	44954	B	14672	287	2018	
14587	44955	A	14673	1	1073	

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14588	44956	A	14674	1	3335	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSHDS AIKLELRINKLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNVYKRKQERSKIDTL TSQLKELEKQEQTSHKASRRQE ITKIRAELEKEIETQ
14589	44957	A	14675	1	1838	MIIPIDAEKAFDKIQPFMLKTL NKLGIHGMYLKIIRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LPPLLFNIVLEILARAIQEKEIK GIQLGKEEVKLSLFADDMIIYLE NPIVSAQNLLKLISNFSKVSGYK INVQKSQAFLYTNNRQTESQILS ELPFTIASKRIKYLGIQLTRDVK DLFKENYKPLLNEIKEDTNKW KNIPCLSIGKINIMKMAILPKVIY RFNAIPIKLPMFTFFTELEKTTLK FIWNQKRARIAKTILSQKNKDG GITLPDFKLYYKATVTKTAWY QYQNRDIDQWNRTEPSEIIPHV YNHLIFDKPDKNKKWGKDSLF NKWCWENWLAICGKLKLDPFLL TPYTKINSRWIKDLNVRPKTIKT LEENLGNTIQDIGMGKDFMSKI PKAMATKAKIDKWNLIELKSFC TAKETTISVNRQPTWEKIFAIC LSDKGLISRIYKELKQRHKKKT NNPIKKWAKDMNRHFSKEDIY AANRHMKKCSSLAIREMPIKT TMRYHLTPVRMAIHKKSGNNRC WRGCGEIGTLSHCWDCNLVQ PLWKAVWRFLKDLELEIPFDPA ISLLG/TYPKDYKSCCYKDTCTQ STFTCRQHLPL

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14590	44958	A	14676	1	2354	MGDFNTLLSALDRSTRQKVNK DIQELNSALHQADLIDIYRTLHP KSTEYTTFFSAPHRTYSKIDHLV GSKALLRKCKRTEIITNCLSDHS AIKLELRICKLTQNHSTTWQLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWYVKDTRI SGMLWYVKAVCRGKFIALNAH KRKQERSKIDTLTSQLELEKQ EQTHSKTSRRQEITKIRAELEI ETQKTLQKINECRSWFFEKINKI DRPLARLIKKKREKNQIDAIGN DKGDIITDPTEIQTITREYYKHL YGNKLENLEEMDKFLDTYTLF RLNQEEVESLNRPTGSEIEAIGN SLPTKKSPGPDGFTAIFYQRYK EELRIKYLGIQLTRDVKDLFKE NYKPLLNEIKEDTNKWKNIPCS WVGRINIMKMAILPKVIYRFNA IPIKLPMFTFFTELEKTTLKFIWN QKRARIKSIKSKQNKAGGITLP DFKLYYKATVTKTAWYWYQN RDTDQWNRTEPSEIMLHIYNHL IFDKPDKNKQWGKDSLNFNKC WENWLAICRKLKLDPLIPYTK INSRWIKDLNVRPKTIKSLEEDL GNTIQDIGMGKDFMSKTPKAM ATKAKIDKWDLIKLSFCTAKE TTIRVNRQPTWEKFFAIYSSDK GLISRRYNELKQIYKKKTNSPIK KWTKDMNRHFSKEDIYAAKRH MKKCSSSLAIREMQIKTTMRYH
14591	44959	A	14677	1	3144	
14592	44960	A	14678	1	2745	
14593	44961	A	14679	1	2742	
14594	44962	A	14680	1	3264	
14595	44963	A	14681	1	2982	
14596	44964	A	14682	1	3102	
14597	44965	A	14683	1	1443	
14598	44966	A	14684	1	3723	
14599	44967	A	14685	2	1841	
14600	44968	A	14686	572	744	DLLTTIRMPTDVKKCSSSLAIRE MQIKTTM*YHLTPVRMPIIKKS GNNRCWRGCGEI
14601	44969	A	14687	1	3588	
14602	44970	A	14688	1	5569	
14603	44971	A	14689	1	3992	

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14604	44972	A	14690	755	2415	QELRVSGWSPASAPANT*CPPA QPCPTRRSGGQRAPARTSRPG SRPRTASALPRPAAQKAASRSA RASRTNPYTAPKPLPSVESALQ EAAIGEHAHQQRVSTCAAPA APPSPAWPWSAARSAAPPPRT* ASAPA*SPL/PVRLKKSPGSSNC EARGEWKT/PALPVQLGAHGP PQPAAVPCASPGSGAGPRWSRS ARRTPRGPLQRGRTWVSPDPGR EATPSGTQWPQKTRGSLPGS*C APETPCSAA*SSGTSPRGAGGC CPGTVPPALEGHN*PQRWGSHS AGRVEITRAEGPQCQQGAPAGC SLGVGGQRGPPGLPPIPVGLC* TCRSS*MEAATGSVEKCKRMA SLMQASRWSFLRVAPVSGQVK YTPGTARWAEPSSLGSDTTLVP GAS/RAPADGGFGLKFLSHLVS DGVLRGCGPRPGTASAPAGLR AAAAIPSVPSLVGPWRGGLGAG WLGFSLWAFSPTDSLFS*PGPA LLNLMSALNS*KNFFMVAARS CGGGTRGRGGTGPSRGRGRRR PATGRK*KKKKKKKKFTSPPEV PPSPGLPRDNRL
14605	44973	B	14691	1	822	
14606	44974	A	14692	1	2789	MAAVRKQLPRGVLGYGGSGAL LSTAAADTSLLLGSLQERKSAS AGPGYLRSSVAAWSGLWLTGA SEAHSVVLACFSRKDVEASLSV GLPVHPDASCARRLDAADGVA GGSPRLPQSTDGWRLTAHSLPQ STDGWRLTAHSLPPPTDGWRL TAHSLPQSTDGWRLTAHSLPPP TDGWRLTTHSLPQSTDGWRLT AHSLPQSTDGWRLTAHSLPQST DGWRLTIHSLPQSTDAWRLTA HSLPQPMDGWSCRSAQWCV
14607	44975	A	14693	176	440	
14608	44976	A	14694	114	253	

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14609	44977	A	14695	124	890	GSRAWDRPRLEVA AATTTLFY GYGFVSAELKKASKRMTCHKR YKIQK\KAPEHHRKIRGEAKKR GHNKPRKDPGVPNSAP\FKEAL L\REAELRKQRLEELKQQQKLD RQKELEKRRKLET*SWIFKPSN V\DPMEK\EFGLCKTE\NKA\RSG KQNSKKLYCQELKKVIEASDV VLEVLDARDPLGCRCPQV\EEAI V\QSGQKKLV\IYLNKSDL\VP KEDL\ESWLKLF*RKDLPSNGCF RASTKTQRVKGKITKVSFIS
14610	44978	A	14696	553	997	EVTACWQSSQPSLT LGASSAW APTLA ALEEFSPPLHCGSPFLG WPRLEPAPSAPPWAPVRPEPPQ QGPPSAPGRPIPTTQGLRSADA GRRTGTQLHRQPAKVCSF/IS*S QRDHEPTRRNEQLQTRRLKSCN THREDLQLHSRRKKL
14611	44979	A	14697	1410	2036	
14612	44980	A	14698	3	630	RYKGS PRPHQTQEPSWLHLVDP APGLQVELPASPAPCARIRQPL GGRWDWAPWSRGWCSSGRLG QHRSPWSGWEAQAWRAAGPK PCPAGRQLRPGEKSSTAPVGRH CWGIQYTLRSHWPGC*VPHSSG PAGLAGCSGTPAGPQAPHAAP V PARA/CSLHTSLQAEGVGSSL GQPRKGLPQCRWGLKGSSNAA KVGAQAGEVQARALRTAS
14613	44981	A	14699	190	383	ASHPLRGLRSGRSLPDERHRL HSAQSHRPPKG*GVRAQGAGL T/WQLHL*PQCGIHWVKPAGLL
14614	44982	A	14700	1	1095	
14615	44983	A	14701	1	777	
14616	44984	A	14702	1	933	
14617	44985	B	14703	1	996	
14618	44986	A	14704	978	1207	ASLPLRGLLCCPSLPEERRPLLH GAQSHRPPKG*GVRAHGAGLA/ WQLHLRPRCGIHWVKPAGLLS LGPHQQSSKSA
14619	44987	A	14705	111	558	

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14620	44988	A	14706	1	1103	MKPWALKVSVTALKVARLEFV PPDVRMCSEFLPCGVKLQTFV SVTALKAARLELFVSPGGLVVS LASGVKLQTFPVSVTAHKSSVD PRSEQQDQLLQRAKEQTFHTVE GDRSGSPDGAQLASPSGSRT RAAGGAACQSRALRPHSSALG WSMGLGAVEQGAVLIREARAA HEPMERVGGSGMAGCRSRALP REKAAKARRETEGSAAVSGWL SGIAQWPKIDHEGFRAVKMPQ AAWLLKAVTFIDLTTLSGDDTS SNIQRLCYKAKYPIREDLLKAL NMHDKVAAGFPAGQTHLKTRL EEIRLAVEDGATEIDVINRSLV LTGQWEG/LYSPVVYSALPCNI* HSRLFLPSGNALLLWLWCLHS
14621	44989	A	14707	2	2300	
14622	44990	A	14708	2	1058	ARSNIRMVTAFRSLPAGSSGAA RAMSAHNRGTDLDSWISKIQ VNHPAVLARRAEQIARRTVK KDWQAAWLLKAVTFIDLTTLS GDDTSFNI*RLCYKAGYPIREDL LKALNMHDKGITTAAVCVYP ARVCDAVKGTSRPAG/CVNIPV GISRAAGFPAGQTHLKTRLEE IRLAVEDGSLQKIDVINRSLG A*QAQWEALYDEIRQFRKAC GEAHLKTLA/TGELGTLTNVY KASMIAMMAGSDFIKTSTGKE TVNATFPVAIVMLRAIRDFFWK TGNKIGFIPAGGIRSAKDSLAW LSLVKEELGDEWLKPELFRIGA STLLSDIERQIYHHVTGRYAAY HDLPMS
14623	44991	A	14709	576	998	VLQFLKAACPEFVPSGVPMCSE YLPSGGFVVSLASGVKLQTFPV SVTALNALRLELFVPPGGLMVS LASGVGSCRSSR*VLQLIKAVWT QRPLGGRWDWAPWSRGRRSFG EARAAQKPMEGVGGSGMAGC RSRSPAPREGS
14624	44992	A	14710	2	589	RHHPRHAVQARFPAGPLAGA QRGSGAE*RGPOGSVPGAGLS GGESL/PGETDRGADKEERGRQ RWQRALGRLSAGADPLPAELR GRRQRRGR*AGQRAAQEAACE APIQSGGARNGRRG*GRRL*GC YQ*V*FPGLTRGWGRGSRPSAV HCGWEPP*AGKPSGQTPRHSG* PAGVDGLPPKVTGPPPGTPQPR

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14625	44993	A	14711	1	1596	MRLTRCQAALAAAITLNLLVLF YVSWLQHQPNSRARGPRRAS AAGPRVSLPPHPLTCVWRCSRP AMDRPPAASRPETTVATEFVAL VLDGARAEAHALLERMVEALR AVSARLVAAPVATANPARCLA LNVSLREWTRYGAAPAAPRC DALDGDVLLRLRDLFNLSA PLARPVGTSFLQTALRGWAV QLLDLTFAAARQPPLATAHAR WKAEREGRARRSALLRALGIRI VSWEGGRLEWFACNKKNQRC
14626	44994	A	14712	225	980	VPSRTWAEYRTRFVPHSLGQPR SSHIPQSPQTDQTAQGQALAP PAGRSQQ*GRPGRRARLGPGER HS*APPPLSQLLLQTFPHLQALP SAHARPSGQPHADRGHSRSPSG /DLSTSSVLKVVRPQAGGPKQA RCPQAGRVCCHPRGGRGPE/Q Q/GG*RPEAPQASPEKGSTGLRP SAKDSKNQGTGIFLRQVAPRP EALCCPPPRGADTPVSPCLWVA GAGIPLQPPEGAEGAVLGSCLCT LCPGSPDSPPTS
14627	44995	B	14713	405	893	
14628	44996	A	14714	178	499	
14629	44997	A	14715	231	436	
14630	44998	A	14716	141	393	
14631	44999	C	14717	97	351	
14632	45000	A	14718	119	358	
14633	45001	A	14719	21	614	PPCTSLRPLHAFSGKMTLNRG TSLLDSQLHNLIALQMTCFKD VEIPNFFWEPSVTPSHRNINMYF PAAVFGFLPISGTLFSYCKIVSSI LRVSSSGGKYK/AFTTCGSHLS VVC*FYGTGFGGYLSSDVSSSP RKAASVSMYTVITSM LNPFY SLRNRDIKGVLRQPHGSTVQFQ YLLICSIPFVWVKKGSKVK
14634	45002	B	14720	162	1263	

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14635	45003	A	14721	696	1791	VWIALKSENITCELLLFKMQTQ CQVLVYLFPIFQPSFLGKRCPI TDPQNLTDVSI FLL LEVSGDPEL QSPSCWAVPCPCAWVTVLGNL LIILAISPD SHL HTPMYFFLSNLS LA\DIGFTSTTVPK\MIVDIQSHS RVISYAGCLTQMSLFAIFGGME EDMLLSVMA YD WFVAICHPL YHSAIMNLC SVG FLVLLSFFFF LSLSDSQLHNLI AL QMTCFKDV EIPNFFWEPSQLSHLACCDTFTN NIIMYFPTAIFGFLPISGTLFSYY KIVSSILRVSSSGGKYKAFSTCG SHLSVVC*FYGRGVGGYLSSDD VSSSPRKGAVASVMYTVVTPM LNPFIYSLRNRDIKSVLRRPTEH CLISKK
14636	45004	A	14722	1	1971	MTRKVTLLLR TWR GGCGRLA MGMEATPQGS LHPL FQEHWIR AEDFGVLSPMHPNSVQGVDDM IRLGD LNEAG MVHNLLIRYQQ HKIYVSLPSPVSTGEPLTGANLL DREKKMMHRGHCPIALTEGVS GPDNPEGRARAKAKAKARAEL PLPGAEGTDHLLPSQTYTGSILV AVNPFQVLPLYTLEQVQLYYSR HMGELPPHVFAIANN CY FSMK RNKRDQCC IISP QNRVGAQTD VLKVFOHLLISLICKTTLQACCI PSHPYLSSAPGPPPLTTQCRSYS DSLLGPQLFGDVCYNCSHVIEG DGEALCSLPHPTCSPGAWVLQL VSPLNKA WCV SCFSCSTCNSKL TLKNKFVEFDMKPVCKRCYEK FPLELKKRLKKLSELTSRKAQP KATDLNSAEGPLAQLGAVGA/V TGITHEPHIPQVENG SQ QLDDV PALGV\ENWRIFMAERMEAQG GQRLLLSTMHEEYEFVSPSSVAI AELVALFLEGLKERSIFAMALQ DRKATEGGPVGLTKKQGLLAS ENWTLGQNDRTGKTGLVPWH CLYTIHTVTKHSDSCCTAVPTL LEASSGCIFMSYKKHITLTPKSA DSNKR PST LGSQFKQSLDQLMK ILTNCQPYFIRCIPNEYKKPLG FSDSFMLIKLIRIDKVQYDSFSYI

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14637	45005	A	14723	1	1197	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKET GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSRKTLMTHQSTCPKH RASRVGPSNSLQNKQTVKKGD QTSVRRKRNDLKVEERHKNHH LARELTSSAAAASPTGHAAATA QAPQRHVEVGRAAAPAGDLGE GIVGEQVLGAERLVGPDASRAR ALCVLGDRREAGHTAEMTAAP PAQVPGPGGPTALRRPSSYLGL GVDEQNPMMSVDGDEDDVRVQ HQELRDCLIKHTILIRGEFVTRS LNIAQAADRRDAFVKGIYGALF LWIVKKINAAIFTPPAQDPKNV RRAI/GLLDIFGFENFENNRIIRT LCWRYREARC
14638	45006	C	14724	1	1032	
14639	45007	A	14725	1	4960	MSTTSIFQQLNLLSHSHKQKQ QIQLPNGRSRYSCMAAFRMQ YFLSLPMKSLILVGFERLQAIAR SQPLARQYQAMRQRTVQLQAL CRGYLVRQQVQAKRRVAVVIQ AHGQGMAARRNFQQRKANAP LVIPAEGQKSQGALPAKKRSI YDTVTDTEMVEKVFGFLPAMI GGQEGQASPHFEDLESKTQKLL EVDLDTVPMAEPEEDVDGLA EYTFPKFAVTYFQKSASHTHIR RPLRYPLLYHEDDTCCLAA
14640	45008	A	14726	86	370	RTWMTHVWRRRRVQAAPTAY SSFRPGTSPCPAQPRAGARA*TR SGTSIMPTGFSSHTSCLTVPPFT ASSAGQHRQRHRKTTAAGHPT TTGAASF
14641	45009	A	14727	3	455	MQSVLPAHGVSSSTRASSRVTL SSPSTSTNCRGRKSSRVTS SGPGGGGGGPGSGRFGIDPPRK FAAAGSFSTGAPSSVMVVRVSG MPSLSW*QYP*SCSTLGCRSRSS STISLSSLWA/VQPIAAPYPPELA TQLPISCR*SPSPCAPS

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14642	45010	A	14728	338	1782	NQLSK*KAHSIRT*TALQQSSGR SQICIVQSSADALPSSRCTNPSS FTPTPLPPRPHPRCTSTLGCRSR SSSTISLSSLWAASR*QPLRTPN SRTQLPRSWPLKSTALSPPPPGQ ATRLCWWMVSSK*RTWMTHV WRRRRVQAAPTAYSSFRPGTSP CPAQPRAGARA*TRSGTSIMPT GFSSHTSCLTVPRLHCVLCWTA SSTPQESSPGGWTRPWPSWRRRC CTCTGAGRYLQNSTAS/T/PVPS TSVSQTAPSPKEDYRCWPSYHH GSLPPFSVQPG*GCGMSVRAMP SVGPLWSPTRPPGQIKRQNYLL NYWSCWKMTLLAGIIPSST/GS RPADLDYFLGSSQCPRDERTLK GHVSCDPTSSISITGEKLKQKLE S/SSTLADTKSAFLQDSWT/SSLP TLGASAI\RTTSAS*TDQCPPAP GPLHVSV/SLNSTYPSRLCSSTCS TVDSFQIIPMPN*MPFSTCGAFC WCLWFSAITALYFVM
14643	45011	A	14729	148	1040	WCTGSQFSKGTWEILLRKKPSL GNVGALPCVATACLTTVEKRA PRGHPLAPVLGDICPKVGSMSS STSEL/CTWGNFEFWGRNKYNH WF*WGWALLHQFKMGKAQG LQEASFYRKDTY*A\TMP*NPIG ISEFGTLALPGPCKNVFERFMS RFELPGKAAAMTDNTNVNYVR YKGDYYLCTETNFMNKVDIET LEKTEKMWKPRFRGICPQLQG CSVTEQGFESDDAKSWALQH PKRPAQQDWAMSRGNQGWAN LGLKIIRGEAVTTTRAKEVSVVL KVLEVTDGKVWAREKKLRDSR
14644	45012	A	14730	189	507	AAGADTSQGGGGPPPSQSQR\ PKSPSAGRKGSQSLSPQPQKKGL PSPQGTRKSAPSSKATPQASEPV TTQLLGQPPTQEEGSKAQGMR* PPQRLGASTQQQTNQEAA
14645	45013	A	14731	2	356	DGVSLCHPGWSA VARSQLTAT SASWAVCWQGCGETGILLPCW WECEKVQPLWKQYGRLSCEDH LNS*VQVILTTQPPILFPKWHL FTFPPTGQKDDSSFSTTLPTHCPG GRGCSELRSRHCTPAWVTE

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14646	45014	A	14732	1	408	FFFFFYTTFFLFFYFYFFEMESH SVTQAGVQWYNLSSLQPPPPRF RRFSCLSLPSS*DYRCPPPHPAN FLCF**RQGFTLLAKMVSIS*PH DPPTSASQSAGHVLTSKWELNI EYTWVIKMGTA DTGEHKNGEG WE
14647	45015	C	14733	262	536	
14648	45016	A	14734	179	745	TDCLHNRCHRSRSPPPGPPG*R SRADWWRRGRCWGSWCASSR RVC*RCPAPSASFCCRSRGRQ GRTFPPSPCPAPD*TQPVSPGDS TRPCPPPSPPAHRAT/GCCGRR RLPGNASYLASPGKEAGEFPAS QGDS*PGQYGYIGDSSS/RPTRG TWMKASTPRHPIAPQICGA*G FGEHQEVPVREK
14649	45017	B	14735	1	1164	
14650	45018	A	14736	35	542	VRPPSHVTADSGRSPLSLTYLPL QEPGDMAAAVPRAAFLSPLLPL LLGFLLLSAPHGGSGLHTKGAL PLDVTTFY/KDYGDKLNMESE KYKLDKESYPVFYLF RDGDFEN PVPYTGAVKVGAIQRWLKGQG VYLGMPGCLPVYDALPGEFIR ASGVEARQALLKQGQDN
14651	45019	A	14737	11	908	VRPPSHVTADSGRSPLSLTYLPL QEPGDMAAAVPRAAFLSPLLPL LLGFLLLSAPHGGSGLHTKGA LPLDVTTFYKVIPKSKFVLVKF DTQYPYGEKQDEFKRLAENSA SS\DDLL\VAEVGISDYGDKLN M\ELSEKYKLADKESYPVFYLF R\EGDFEPPSSHYTGG*RLGAIQ RWLKGKGKVYLG DGLELVCT V*LTPWSGEFIRAISGVKARQAL LKQGQDNLSSVKETQKKWAEQ YLKIMGKILDQGEDFPASEMTR IARLIEKNKMSDGKKEELQKSL NILTAFAQKKGAEKEEL
14652	45020	A	14738	3	227	
14653	45021	A	14739	1	424	
14654	45022	A	14740	1	207	
14655	45023	A	14741	2	352	
14656	45024	A	14742	1	441	

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14657	45025	A	14743	1	461	MTVDYRKFNQVVTPMAA/AVP DAVSLLEQINTFPGTWYAAIDL ANAFSIPVHEAHQKQFAFLPQ GYINFPALCHNLIRRELDFFLL QDITLVHYIDDILLIGSSEQEVV NTLDLLIHKRSKEAHTAASRIR VSCLPEQKSHEQTLPWQVVP
14658	45026	A	14744	1	928	
14659	45027	A	14745	283	1074	
14660	45028	A	14746	450	1970	VRVLSPEKELKLWKNTHKLL SYPTVGAAVTQLQNLTAMGVI GSHGARGQVVALNRQRQGD QPFTRTVHWGKGYDRTFWGL LDTGSELTTPGDPKHHCGPPV KVGAYGGQVINGVLAQVQITV GPQTHPVVISPVPECIIGIDILSS WQNPHIGSLTGIMVGKAKWKQ LELPLPRKIVNQKPYCIPGGTVE ISATIKDLKDAGVVIFTTSLFNS PIWPVQKTDGSRMTVGYRRL NQVVTTPATAAAPDV/VVSLLE QINTSPGTWYAAIDLANAFSIP VHKPHQKQFAFSWQGGQYAFT VLPQGYINNPALCHNLIQRNLD HFPLLQDITLVHYLNDIVLIGSA IKWVMHSS/DSIIKWKWHVHDR AQADPEGTS*PGYGHFWCPIC QQQRPTLSSQYDTIPWAISQLPG DRLIIGPLPLWKGQKFVFTGIDT YSGYGFAYPACNASAKTTIMES QNTLSTLMVFHTALPLTKALTS WLKKCSSGLMLMEFTGLTMFSI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
14661	45029	A	14747	1	2589	MGPPYKPPTTWPQTLSYHSTT PVKLQSLSLPPTAARGATEPCH LQAPASSVQQMTPPAPGLKHL GGKSQMCLEQDGRSGSVRGSP CHAGHWVAGAGFGKGTTRTW GHVNLIVPPNCPTASSAARDS APNQPLLGVVTAQIVPPTCPPA MTVQELIAPLTLPPAAGCRRGV RPFQTRVWLLAQLLRARLGGP GEGVVTCHSWRLERVAPRLAS LWWALAAETAARLDWAAKRP SAWGSIKAAEFSSKATPRLEGA SSRTLWVSYIAKETTGTGKNGP VEPSHLWEAYCRATAPHPAVH SPSAEVITYTCGIVNLLLQGLVP KSHLEHTGCHVVVELIICSVV LPLISRLSDPDWIHLVLMVIFSK ARDPTPCPASGPEQPSVPTSLPL IAEVQQLPEGRAPSPVAAPGFLS KQIQDALCALEGSQALEPKGGE GSEGVEAEGPGTETETVLPVST LNFCEIQIDIADKEIEQGEVTTS VTALLEGLEKTCSSRPSCLEKD LTNDVTYLDPTIFSFELSSPDG PVVIQNLHITGTITAQELSGTGL QPCTRYTVKCETSLDGENSSLQ QLAYHTVNHRYWEFLNLQ/SH QEKKPD*KFIKNIEKMVVS VDNLKTAFPCSESQGPTEELSE AETESKSQTEGKKARKSRLRFS SSKISPALSVTEAQDTILYCLQE GNVESKTLMSGMESFIEKQTK
14662	45030	A	14748	478	3507	SKILRAVIWGSHLVRSAKMTET VPPFQETPAGSSCHLNNLLSSR KLMAVGVLGWLVIHLLVNV WLLCLLSALLVVLGGWLGSSL AGVASGRHLHLRFIPLATCPPCP EAERQLEREINRTIQMIIRDFVL SWYRSVSQEPAFEEEMEAAMK GLVQELRRRMSVMDSHAVAQS VLTLCGCHLQSYIAKEATAGK NGPVEPSHLWEAYCRATAPHP AVHSPSAEVITYTRGVNLLLQ GLVPKPHLETRTGRHV
14663	45031	A	14749	1	417	
14664	45032	A	14750	34	350	RERGQEGGVAGRVEMDVSVVE RGAYADQIWGRPKGGESRGEK RKGRWVQVRALRARVTPAGL GECKWGRGRGD*VRRVKPRAL RERWGDGSTVSDSTPMKPGLE

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14665	45033	A	14751	1	1604	MASKRCIRDFRSRGGKLSFQL YATFRKEGCGPVLANGNPGGG RGQEVSA TQDLRRGWGIASSAS RFPWRQSWPGRPRLGNYDSGA PGEAKMP SKGDKKKKGKSKGK DTKKLIK TDES VVDRAKANASL WEARLEVTELSRIKYRDTSRIL AKSNEDLKKKQCKMEKDIMSV LSYLKKQDQEKDNMIEKLKQQ LNETKEKAQEEKDKLEQKYTR QINELEGQFHQKAKEIGMIHTE LKAVRQFQKRKIQVERELDDEI NDLLVKEKIMQLVQQRSQIQTL QKKVVNLETALSYMTEKEFESE VLKLQQHAMIENQAGQVEIDK LQHLLQMKDREMNRVKKLAK NILDERTEVERFFLDALHQVKQ QILISRKHYKQIAQA AFNLKMR\ EHVQEEQNIPKSEHLMAESTAPI V*IRIFWRPKNGHILKEMWILEI *PGSRRKKYCD CSLQK*MAVLL GNTTQSSRPSSSRTMLFLDSGET KEFGDESKLQDKIFITQQIAISD VFW*SGATHYSKRTSGV*HSGK SES LQPRGQRLI
14666	45034	A	14752	95	473	
14667	45035	A	14753	168	449	

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14668	45036	A	14754	1	2000	MAFEQAKQVVKLALDLWPIGD GPVELQVTVLDQHANWSLRQE QHGKRGPLQFTDVAIEFSLEEW HCLDTAQRNLYRNVMLENYRH LVFLGIVLSKPELITCLEQGKKP LTVKRHEMIAKPPGQKNWEKQ ALPLTGCLTKYPSWAKNIDIIVT CSHFARDLWPEQSIKDSFQKVT LRRYENYGHDLNLFKKGCEV DECKVHKRGYNGLNQYLTTTQ SKIFQCDKYVKVIHKFSNSNRH KIRHTGKKPFKCIIECGKAFNQS STLTTHKKIHTGEKPFKCEECG KAFNWSSHLTTHKRIHTGEKRY KCEDCGKAFSRFSYLAHKIIHS GEKPYKCEECGKAFKRSSNLT HKIIHTGEKPYKCEECGKAFKR SSILTAHKIIHSGEKPYKCEECG KAFKHPSVLTTHKRIHTGEKPY KCEECGRAFKYFSSLTTHKIIHS GEKPYKCEECGKAFNWSSHLT THKRIHTGEKPYKCEECGKGF KYSSSLTTHKIIHTGQQPFKCEE CGKAFKCFSLTTHKRIHTGEKP YKCEECGKAFNSSSLTAHKRI HTGEKPYKCERCAGKAFKRSFIL TRHKRIHTGEKPYKCEECGKGF KCPSTLTTHKTLAEIHAGKPNK *E/ECSKAFKDTALTRHKIIRTG EKPCEFDECRKAFNQLSTFTKY
14669	45037	B	14755	269	1131	
14670	45038	A	14756	2	149	ALFRAGRQECLSLKLCPQPPL SPTCFVPGR*GFYLHFFQRCAA QRGGI
14671	45039	A	14757	2	175	

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14672	45040	A	14758	1523	2667	PLLVIHRQTGSGEDLQQTPADL QQRDLLERKLTNRNE*HQHQQ KRHPLKNP'IQMSP/CIKDQRYIN PRSTIKLELGKLTENCTTTWK LNNLLLNDWCWEKQERSKTDTL TSQLELEKPEKTSKASRRQEI TKIRAELEIGTRKTLQKINKCG SWFFEKINKIDRSLARLIKKRE KNQIDTIKNDEADITDPMEIQT TNREYYKHL YANKLENLEEMD KFLDTYTLPRLNQEEVESLNRPI TSSEIEAVINSLPT/KKRSPGSDR FTAIFYQRYKEEL\VPFLLKLFQ TIEKEGLLPNSFYEDSIILIPKG RDTTKKENFRPISLMNIDAKILN KILANRIQQHIKKLIHNNQIDFIP GMQG\WFNIHKSINVIRHLNR
14673	45041	A	14759	640	1771	APVARMTA/PLFYTALLVFSAL GNILALCLTCQKRRKINCTGIY LVHLAVSDLLFTVALPGRVVC YVLGSSWPFKGGLCRLTAFVL YTDYGGVYLMACVSDHYPT VVCAGWGPCLRTAGRARLVC VAIWTLVLLQTMPLLLMPMTK PLVGKLACMEYSSMESVLGLPL MVLVAFAIGFCGPVGIIILSCYM KITWKLCSTAGRTQ*PAGKDTT GGASPGGPSDQPEKTPPAGAAQ EDPVTPTERTPPAGQPERTQ*PA GKDATGGTAREDPVTSRKGRH WRGCLLTLLMLVAVVVCFSFY HLNIKQFMARGMLHLPSCAER RAFLLSLQATVALMNMNCGI/D PIIYFFASTHYRKWLLGILKLKG SSSSSSSSSTLY
14674	45042	A	14760	1	401	MVLVQWLTAITSFAFWETQNGK SLQFEDK WDFMRPIVLKLLRQE SVTKQQWFDLFSLGATLQDSSG PLLTGKLKKKRKVSGTKY/IEAS SATSLKATTDTHLLLYNPFWI PLTLI*HLCWLQRFA*SCDTPH P
14675	45043	A	14761	184	2720	
14676	45044	A	14762	34	251	
14677	45045	A	14763	2	452	LQIEII*ALEELAAKEKANEDAV PVCLAADFPSAGMGSSCDGQE DELDIKSRAAYNVTL/NFMDP PKIPHLKEKPYFGMRKMAVRW HHAENLVDRPQVEEEDDSHLE GRDLDTWHVGVKISWDVKTPG LATPQGDCYFMLGNLWRTKIIL

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14678	45046	A	14764	1	1701	MPFKCKKQHTFNKTSPKEGAI FTHGCLCTSPFNSESEHLGNL KLSSWEHLHHRSSQQTLSVRLH VPTQPVEHEFIQLIYIHTGAKL QASKVIIATKDGKRRKSPLWQL KYPKLILREASSVSEELHKEVQ EAFLTLHKHGCLFRDLVRIQ GK DLLTPVSRILIGNPGCTYKYLNT QLFTGPFVPKGSNIKHTEA*IA AVCETFLKLDYLIQETIQALEE LAAKEKANEDAVPLCMSADFP RVGMGSSYNGQDEVDIKSRAA YNVTLLNFM DPQKMPYLKEEP YFGMGKMAVSWHHDENLVD RIQLQLWDPVDGTTASSAVPKQ GRDKRREVPNTLSQPNSQGLI SAFHSRCVHAVFYKLTSAPKTT SLPDVPSDLLAEGLAASRAGQA LWRCDKKSLLTLVRKINLQ GK RDGGRSATNQSQPHLDNTGL ERQLEQKVGRCSR PWRLGHL EGNAQKGHLLHGVNKNQHL LRRHGV SIRAGRAPHLAAADT APGRISCLGHSEALKPRIQAGGL GAESIWQVLWEGGSNSSVFCR HDEEPAAELPLPGKQASGGHM
14679	45047	B	14765	16	1462	
14680	45048	A	14766	89	566	MEQGSITQAWREDALVLTQK GLVSK\SSPKRPHVCHILKAPFC CSCTQHVGQSSSPR*ANPHIRRE STPIAMSDQLQRLQYQFYQIPG TCLLPEVTEKNQGRICMVTDL ETLVHSSFKPISNADCLVPVELE GTMHQIHVLMRPYMDEFLT*M EEMF
14681	45049	A	14767	1	305	LSGLEMFQAGAGAPSSPGY*GS CWAISWSGPPDKHSNRGASCG LETWAGAAATDTAGHPAAGR C*A*AGSGGDQGTGSTAPLPAT P*PLQSLV*AAALPA

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14682	45050	A	14768	1070	2653	SLKPCMACL*HS*EKTLSOSSG RSWICAVSFGSPGPAAPLPEL SFPLRPGYTKLLPHATEEVSPFG SGAGRKLGPMLPSTAELCPGTR ARWSEGYRDLGRQAQDLQAG RKSVVTWALEGHPREEERAAA KVQQCQRMWEGCSDPQELIPR PGRNPDVPDSAVALLPWGPSR VPDLGPDSEHR/PAHSRVQYWL HKAPAPPSPPQLAEPATPPTRP SSPGSRSPSSWHRLRSWSLNAD PWRPRPADLPPGNPAPPSRGGGA HGTWKGKDVRLPLGRGSRIFS V CGRREVQRAARRVGTGPGWR APGREREASR*QPPGTG/PASP MGRASSSGSRVSPGPIRRTAPW EGCSCSRHHWGKGLGPPDGE PG\PGSS*VAQPTVGRRSLGPG GAAPARDAAAATPPGDAAARE GSGRHLRAPASRPQHQPSPRS HPPASATTASLQKFRSASSEPPS EDRPFDFSPTAPPQCPRVAPSAG AR*R/AGGRLPE/PR/RPGPWGG GSRTNLTIPSTLHGPTPAAARTS PHRKS
14683	45051	A	14769	748	1073	SQHFGPRWVDRLRSGVRDQP GQHDKTPSLEMQKVIAGRAGG CL*SQLRLRLRQENPLNPGGGG CSELRSGLCTSVWATGRDSI*K KKKKKKKKRKPWSLLSLIVLVQF
14684	45052	B	14770	59	466	
14685	45053	A	14771	2	3184	HRTGIPGSTISSPGGETVPE\MTA AMRERFDRFLHEKNCMSDLLA KLEAKTGVNRSFIAL\GVIGLVA LVLV\GYGASLPLQPLLGFY PA\YISIKAIGE/SPNKEDDTQW/ V*TYWV\YGVFS\IAE\FFSD\IF LSW\FPF*LHG*KCGFLVGWCN GPEAPSKWGLKLL*QAASSGPF LSLEATKSQIGQVLVKD\LKDQ GPKETADAIH*KPKKSLP*ILL G*KKKKK
14686	45054	A	14772	14	455	PQFPCCRFRALSEEELDNEDYY SLLNVRREASSEELKAAYRRLC MLYHPDKHRVPELKSQAERLF NLVHQAYE\VERRRTPAEIRE EFERLQREEREERLQQRTPKQ TISVGVDATDLFDYDEEYEDV SGSSFPQIEINKMHISQ
14687	45055	A	14773	328	479	

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14688	45056	A	14774	15	1095	KVAKMATALSEEELDNEDYYS LLNVRREASSEELKAAAYRRLC MLYHPDKHRDPELKSQAERLF NLVHQA YEVLSDPQTRAIYDIY GKRGLEMEGWEVVERRTPA\ EIREEFERLLREREERRLQORTN PKGTISVGVDATDLFDRYDEEY EDVSGSSFPQIEINKMHISQSIEA PLTATDTAILSGSLSTQNGNGG GSINFALRRVTSAGKWGELEFG AGDLQGPLFGLKLFRLNLTPTRCF VTTCALQFSSRGIRPGLTTVL ARNLDKNTVGYLQWHCSSPLL QVQRPHRNTRACAPEPSFRPFL HVPTWDAECSGARTPSTAWTS AAVKLREACLSGPGSGSHQLLL LTPRSKRRTGGG
14689	45057	B	14775	508	1765	
14690	45058	A	14776	2	639	GRRRHRRRHRCRSGDCYLPT GTNTQQPLPPPREPLPELTP DLSMQNSEGGADSPASVALRPS AAAPPVPASPQRVLVQAASSNP KGAQMOPISLPRVQQVPQQVQ PVQHVYPAQVQYVEGGDAVY TNGAIRTAYTYNPEPQMYAPSS TASYFEAPGGAQVTVAAS/SPP AVPFHSMVGITMDVGGSPIVFS AGAYLIHGGMDRPELLANL

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14691	45059	A	14777	1	2091	MKPDDNSTQNEGGQSFEERHE TLQRVKFRGGPKTAPGRKLI AF LGQMNSGTSGGQRPVGEELM AGGATCLPNTAEHQPIRMKNL HTPAFRLCPLTLQDNEADAFW HQA FVDWGMPTGKKPQTLGLT YKTTHDL SMQNS/EGGADSPAS VALRPSAA/APPVPASPQMLPLE LVILGVV/PLDKCIPAQWSKEG QTNSYTYNPEPQMYAPSST/AS YFEAPGGAQ\MVGITMDV/GGS PIVSSAGAYLIHGG/MDSTRHSL AHTSRSSPARSFRSNSKAPSSRK FCC*LPTLSSKTL/SLFSKNLLRK LPLGKHSPDSVQWPWIYGLLV AGSESLASLLFPKASSSGETLGF ATGQLAGESRLPSLLAFILVPID VAVGKEQLVTQTTVYRVQGS GQHLNKA WQEPALVNICGMGE KVDVQVGLCQHRAHLDGWNS SRAASVWPGETLTHHQDQCQA NLPPGIETSILGTKGARYPSQE QGGGRVWLERLDPRG/AVSGT DL*CLPQSDVPPGRA*SGGTGD KSISTHDKSGRGN SKYHY/YGIR LKPD SPLNRLQED/TQYMAMR QQPMHQKPRWCRAELGGAGSP LGMEDVSHVFPEFPAPD/LGSF LLQDGVTLHDVKAL/QLVYRR HC/EDVV/MNLQFHYIEKLWLS FWN/SKASSSDGPTSLPASDEDP EGAVLP/KDKLISLCQCDPILRW
14692	45060	A	14778	94	3006	RTRSLTRKAMAEHAPRRCCLG WDFSTQQVKVVA VDAELNVFY EESVHFDRDLPEFGHVL DVHG VHVHKDGLTVTSPVLMWVQA LDIILEKMKASGFESQVLALSG AGQQHGSYWKAGAQQALTSL SPDLRLHQQLQDCFSISDCPVW MDSSTTAQCRQLEAAVGGQA LSCLTGSRA YEFNLVCDRKHLK DTTQSVFMAGLLVGTLMFGPL CDRIGRKATILAQLLLFTLIGLA TAFVPSFELYMALRFA\GL

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14693	45061	A	14779	1	710	MGPAAGAPTSRASRGPRAPALR AAVGRRCRPREMPCQCHPLAR CGLDPAWTQLPQETAGAPRQD PRCTNQLICEHLPLEGLGFGYL GNKDSLRLHVKVVAVDALNVF YEESVHFDRDLPEFGGLASSAV TQSSS/DDLQQVP*SLQSLHAA* SLQTNASPFTFEHSFLGKRHPK GAGQKRAESPTRPPLRLQEAP GELQRPLPYGTQVPAGLCPSVS GLRLRARALLPYRTHSLSV
14694	45062	B	14780	1	252	
14695	45063	A	14781	73	198	
14696	45064	A	14782	762	1080	AGRAEMQQERESHEEAKDPSP LSPREGSQKQQQNVNTSTPSHC PR/PPLRMPPPAPRRVP/CDHPR AEECERKAQHWQAAPPAAPVR DPLGEASWAPESGGDVESLYI
14697	45065	A	14783	1	309	MTKTEREQNEQLDGGGYGERL GEYSLFLLCVPSELNQGKCERV SSYFGMNLSGVLKKLPFPPTRE SWPPPHFTGTPHNHHGGVSNG ALGCAQRCSLHHATNAGGWER GGVSNSRLFFLLSASFSDAKIK PAPSPIDHLRAEEC*/PPLSQPP ALVAWCREHLWAHPKAPLLTP
14698	45066	B	14784	1	471	
14699	45067	B	14785	1	1143	
14700	45068	A	14786	1992	2205	WRSMSGRLRKRLASQISYCPC WS\CP*EESHCRRVSPAPLA*LL SPCPAPQQRSHTDPPFPFKHFP LPFSG
14701	45069	B	14787	389	973	
14702	45070	A	14788	287	525	TNPFNLLQH*KKP*CYTYISITD PTDACHKNKAFSSPAVSQTL/CI FSSTAGSFFVLSGHSCGHLAVFS LWPRSPQLPGTR
14703	45071	A	14789	475	616	
14704	45072	A	14790	1	704	MTKWKSNPQIHMEQLRTLSNP NNLEKSNVKTYKAKIFDDNLI QLTFQQHRQDRDTEQEKKEE EREKRKQQQEPLRKAKMQTV RPGFDLTQGPNCCLTPHGKTWSR LPPKNHRRPYTSRPEGPRVKA* NHGPEGRRGTRLPPAAKRAQ AEEAAQ*WPTRSTLRLEVTPRA MPP\SPSEDPRVAGVHPAPPRGP RSDS/APLRPQLRPPRSLFSLASE PAAAGNARGRHSVLALY

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14705	45073	A	14791	200	408	SPHLMSINLITFANFLFPCE*RNS QFLKS/SIFVMWMIHNGMKCRQ LDTCHCRHGTCKDSICPGLLEES PLP
14706	45074	A	14792	240	771	GRGMQSPAQVDPAAKRGNIAG HTAHLWPKGGTLPCLF/YHLLI MQIREQP*SSLEYPTF/RILSLVS GTKLNKILANRIRQHKKLIHHN QVGFIPGMQGGGLPTPGSEQGHL RVSPSSPSSTVTLKLFNFMEPFE NLNLSKGKASVHTITQENTDSL KVQGSQFSQGHEKRTLCLKVS
14707	45075	B	14793	1	1557	
14708	45076	A	14794	150	1668	ESDARQGPFPLENTTRPHPSCMQ NHGICRSLHPGLCGCPPTARDA APATAGGVPAY/GPLTGAPPG* LPGAGIGSKQSSTMGPSGAGSC LGL*APSQPAD/PGSIQGVLVIA DTE*PLVGGDGGLEAEHQWQ* EAGP/GGLIPKHMNPQSRQQSLF GRRGYRDSSLSVLGRTGQQT* HAELGAGVMGPGGNR*GH/G PRGLPCLVQGRGPGVA AVAA GVSVA VPSGMLSENGPGCSK/P HSGDAGQRRGLRENL*GVRALI WGAASSFLLTEQDLQELADCL HSGRKTCCFFYFQGRGDVAPGPV APAHHRLAGISTV VPEGPLCV GEDRQLPG/GNQRAEPPP*L VRS VSSLTGLPALGPRQMPNAGAG NGSGK*RGVRGSGPDWDCTGT HGGAGTGKLLWAGLSLFLSG KSEAHQQRAAGHGYGRGLGSP GRPPRSRKGRVLGSESAPA*GSP QPLRSARQKPESSCPRQGQPVG RGPGAPLEAGHCSPRPLGPAR SLHPDFPQGLQA
14709	45077	A	14795	3	374	RRPPSWG*RGCSQLPECAADGS LEDHGPLPPMVSCFSRHPAGRF LRVFPPSPLLAVDCCWHNNSYV VAVDCCSATSCSLLL YPSQEFPP HKFLVYLVLSWHQLLGGLELIC TQQPVNPVVS DG

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14710	45078	A	14796	73	890	MSLVRTDGKVSFPHSRAASSPP PRFAGSLPWTPKGHGFTSFPRL EGYCPS/REGPSDWGRNSFRVSS WAWRPSQGVSHHTPGQGP/PSP GNRDK*VATRKSPGQPGSSPEP GWSLQSTSSPGATRTKGNLNTL KG*KQVVD*WVGVTGWEGS GAPQSPQPSREWRLSPRGVGVV KETWPSPWSGR*APPCGQPQG QQTHMERGGR*G*QVGACGLG P*GQWSSVTNGKDTRAPWSPPP RQRNGRWPAPPPFTFHYYYYYY YYYYYYYYYFFFE
14711	45079	A	14797	273	678	TEESTSVLSVPNQTGAGAARIGI VSLRLCGLYVTSPRAARMHIR PHGPWPGGSHHENGEPES/E GAPASASGRGAPEGQAWPPRD AVLSSLMLALFRTKSARHLVLG TRQTAASFPFFSQPSWYCSLG VDGG
14712	45080	A	14798	551	743	PTRITRSAGSSSWGSCRPRAPAP FSWSRPCLQGPRG*CRGLHSRF YAAP*VQGHVPVHILPYSKFRRG RAALRPRGQWGLDSVLGTAVC GCGP/RSESDICSGR*GPE/WYIS PPVPPHVHRGFQQL\NCARQVG KGGGGPGCPMLGNHSSQVGL GLGGQDQDSLESPGRVSSPSGP SAASDPGG*GFQGNPDVHPAP APPDW

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14713	45081	A	14799	705	2299	KREWRPRHHPLGPPPRCAGRSA PLSGPASPF*WLPPGHGPCGR MCSRAARGGDVTRYTHNTRAP SCPSLHWVGERG*DAHTRTPSC PSLHWVGERG*DAHTRTPSCPS LHWVGERG*/GCPHSGLQLSFP PRSAGCCKALFEAKSKGDTGL GKRGWAGGGAGGAARPCICNP TVPCPQSTQSPPV/PPGTR*QLG SSASHSRAASSPPPRFAGSLPWT PKGFGFTSFPR/RGGVLPFPEGP SDWGRNSFR/GPAGPSMW*PAP PSDAQVGHGPGRAGLQRCRGR GGHTPFVLA AAAIDSAYFS**/D P*VFGSNFPHLSCFPG/GCGEGN Q*ARRRPLAGAAALPGPNLES WVCELSVAGPAVWDPVPSP/GD PTTGPESP/RNSAGACGAQGSM R*T*GTPATWSL/GPPPELPGSR HQRQCECGPAHVQERMPGW ACMLKSVAQRGFQRR*QLSKA QAAAWRVPGGR/GAGKD*GW RRWGVSRGGGGLCCARGGGGS SVRRGEVEGS/GCARGGGGCAG WRALSPSSLPISGAQELGS
14714	45082	A	14800	1	267	CSAGGPWRAPQPRRFHRRRRP AQLPPPLPLPLPASPRIHNRTF PRPSQRTPPPAALGCPEPGS/RS QGRGHARPPGSGEGDPTVSSPG
14715	45083	A	14801	218	430	
14716	45084	A	14802	9	201	
14717	45085	A	14803	1453	1936	EVEKHL CQG*ELLRAQHN*AA ACRRPRPPAPGPQCSAGGPMAR APAPQVPPPPPCSA\PPPLPLPP LPAS/HAHPQPHFRHGRRSALLP RPPWAVRSRGALAGPRTRAAA GLRGGAGAAPAPADARFPASSP AE*PKFPQNSARALTGFPRCTD PTVSSPGY
14718	45086	A	14804	1	580	TSGCSHSLHKPAGVSTRPPTVA SICAPRPTSPLRRGSLTLWFPF GGHLTLETPGFDSCPEEVEGP RFSTFKTS*ARGRRQRCAPRG RREVGPPSAAESGRARGEPPRC RLLCRGGK/DPQPRAGEGEEAAA GTPEGSRAGASGSEGALPSAAS PGNSSGRSRPEAGANPKGAPRR CVWGEPGGRTRLFPDE

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14719	45087	A	14805	279	1148	ALHEFAMSRSLHASLH*S**STC P*QQPAPAPAGEPRARFP GKSSS ASSGPG/WPRNHGKQLHLPAQP Q/QQGRISSPRVAGGSGCTGRA LLLAAGLQNSTRSLNPRDPPTIL SHRPLQGM/PDAP/RGCSHSLHK P/SRS/TPLSGQL*PPSAPHAPAQ APSVAGPLPCGLSPGDT*RYWR LLRFDSCPEEVEGPRFSTFKTS* ARGGWRQSRVWASARGASTL QASVQGR*NPQPRAGEGEAAA GTPEGSRAGASGSEGALPSAAS PGNSSGRSRPEAGANPKGAPRR FLGGCLL
14720	45088	A	14806	765	4270	SQDTPGDLQCHGDL*DGAVLS EAPGGERVPRDD*GGVCPEGVP HVSLLRDSVAEALQPRGEAGG DQVPEAHARPPSAQR*PAGAGL RLHPPAAGGVPGQSGGHLPKIQ DDLTSKS*TNSTKTLFPNKVTL SDSGRA*ILEGHRSTQGS LGLEA DPGTVSHHQHPCPPNAATHHF HRTARPGVQQGPGPASVQQPES DGDGALLRSPCSLLPQGADEVL LQPDGDKQGGPRGRDSESD*G YSERR*AQDEYQGH
14721	45089	B	14807	133	2943	
14722	45090	A	14808	1	814	MEEELLRELLYSENWWSIPYND TIQELCCWAVLKRTFINGNTSR KPGMKMVTGLKKQERRSKQW GCEKEAKFVPDMWIVLEVGRP EERGIDGKRWGKSCSVEQSVW AFQNPISKAQTLNLSMK/AYE KGKEGVEEKFEARRSWFMRKK AISHLHNMEMQGEAASADVEA AVSYPEDLAKIIDESDYTKQWIS NVDKTVFYWKKMPSTRFIATE EKSM PGFKASKDSLTPLLGTNA AGGF*LKPLLYHSQTSRALKN YAKLTLLMLYKWNK
14723	45091	A	14809	123	515	PKQSAKTIWTSTARPEDVVTCS FKEEFLPGNTHHDFSINKRSDPE LEVSRPLARPENFPANRSHSLL L/RPCRGRWAAHWTGCSSLLD ASSAPRTDQPSLWRNLPTASLG GPWSHNQPGIVFQNTYLMKWP

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14724	45092	A	14810	279	1136	VDVDLACVRGLLCSCDEFLSW LALNRTVLATPALPSCLSQMAS SLPGLCARTRRGERADSQRGTC AFFSPARTASQAPLVASSVRKQ RVWAPNPLNCHTLPPSRGSQRG GYIGEEGVFGSRVVGIVVPGPN GSPWPLGVQR/PECVLLGVGSG S/SSHELFSEADFISRL LAPSPSP APAS/MGNAIEEEAPELGPLGRV FVDDFHVDYNFIHLHEDLCYGP LEGPDLDLAGTGDRTPLHSRP RASLSPSALRCP*ALGF/WSTLA WGSPNSSSRVPEAQPPAPSLAE
14725	45093	A	14811	1	1597	GGRKAAVGVETRPQGS AQPTW LPVHGDTCTLLLP CRAWWR GGLPWAASVVGAKCVWTPPER GLMLHKPMPGWSSGYRVVLP AVAFFRLRAQVTKLGEVSLRF LKREAKLCGFLQKSFLALEKR MKASESSRLKLESLRGELESR WEKLRGLMEERLRALQQQHEE SHLLEQCQGLDAAVAQLTKFV QQNQASLNRVLLAEEKA WDA KGRLEESRAGELAAVYQENLE AAQLAGELARQEMHGELVLLR
14726	45094	A	14812	150	1625	CLGKAFSCREL NAYLR LPTFFIV FSLRQPSLRMH SRAWVKTCGA MPCSCCRIRHCSSVTDM AVRSL ALLQLVNRTPLRRRQISAACQR MSTFLFFRACTF*PRNRSSGRH /DLTARPRQAILRQNFLK/RAQS RNL TAPNSPR**LLVKTYRQTS RPVSAAH*CPR*RGRAALAAAC HSGSPGARRQTAGPAEGPAR*T RRDFL**RAACLRRRWKWPE*L *RSRSSSP*SQGSCPPALPAPRR CSAGSRTGPAARWCRA GAGSR RHAGSSSA***SRR*GRSASGRR PRHGGTAGSGRWLWWARCPA *AGIPWPSWPCHSSWP/PQSVRV VSSG*RASLHSPGLDSSGGGLQ SFLLVQLPAQGKTSSQP RHAA APSAAACPHAE*CTLGSCPRSA TLPSTPPRASPPAG\RSAVSPCPP GHEGVLVISKHLLLLLSRSGRG LGGNVVRPCSVQPM DGVGQEL AVADRDQLPCLVCQDGECPLK ASGRPVLGCP

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14727	45095	A	14813	921	1446	ACCISHGNLWHHLDQKHGLQS *GEKSRLFSRPNLQVPVHTGLD HRARYLTGPRKQGHLPWTPGPS SVFDNENFCKLSVGM*TGRASA RQQIQSPFAESGKA FSDICS VSL RLCVLPHPWNSRLRSPALRNSL KYSVTSSAAARRKLLPLASGPL RLGPRSLPTRLQVLRWEKVASA
14728	45096	A	14814	1	675	
14729	45097	A	14815	1	2341	MASDLVNRCEACDLPQGPISVH QFPRLSNEVTTTTVGRNSES PNQ RSVSGPWTPREVRRGVAAAAH GFSGQNAKWAHIPATAMSFA LPYSVLHSPHALTTHPLNPGDA VTMPSTSTVSAANASKGRSFS QCFQSTEEGQERRRPRTSQAKV QQGSTAGKVNELITLAGHIKSQ APHGKRKPPPRDSHVICSMLRK RKPDETPSPSSDAQFSGMLAVA VSSLLCPRSSPSQQWHCHSPSTT ILGSSDVSDTSFQPSTKLGPVHG FPPQSRDCILDFELIRKVTGAWS SLTAGSWETKIQEFSEEDILAPH RITPGPHSSKSPVHFLASLWGR KTKLYHHTIQDKEPRSVPEAGS SGRRDGGGAAHSMCLMAPEPD HPGSPNCRSPATLHADADGN LQREAAKCQGDGTQVSTHVDH TSAPRQAETGPATGENEKMESH GRSKRGLVGADQCPAETLDSY TLLVGHKKRDKDRQTPGPAPQ VNSFVPENYLLRGPLAPLGS AIS MKTAGAVHIRPSGDLGRAPAP AVRPRPRPPRRPRRLLPAPHL P GAPRPPAPAPLSRRAARQSPAA AAAPPPGCE/RRG/PAGPASGAG PPAPAHGARPGGKPAANPPRAP QP*P/RRRRSRRRAQPRPGPAPL SRMRAEGPARALRPPPHYQPEL GPPSETVGPVTELLAPIPTARFP TRSHYPVTASPARSS*TSGLD*
14730	45098	A	14816	44	455	HLNRNRTR/PSQITPHIYNHLIFDK /PLFNIWWWENWLAICRKLKLD PFLTPYTKINSRWIKD*NIRPKSI KNLEENLGNTIQHLG/IGKDFM TKTPKAMATKAKIDIWDLIKLK SFCTAKETIIRVNRLPT*WEKIF AIYP

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14731	45099	A	14817	1	279	IQDIGMGKDFMTKTPKAMATK AEIDKWDLIQLKSFCTLKEITIR VNRQTENYPSDKGLISRMLP NF*RLFPAS*KKPPLFDIGKTEK TNYS
14732	45100	B	14818	1	2025	
14733	45101	B	14819	1	3570	
14734	45102	B	14820	1	1380	
14735	45103	A	14821	1391	2742	KKRESSLTHVMRPASF*YQSQA ETQQKKRILDQYP**TLMQKSSI K/YLAKRIQQHIKKLIHHDQVGF IPGMQGWFNIRKSINVIQHINRA KDKNHMIISIDAEKAFDKIQQPF MLKTLNikleEETTVKFIWNQ KRAHIAKSILSQKNKAGGITLR DFKLYYKATVTKTAWYWYQN RDIDQWNRTEPSEITLHIYNYLI FDKPEKNKQWGTDLSFNKWC WENWLAICRKLKLDPFLTPYTK INSRWIKDLNVRPKTIKTLEENL GITIQDIGMGKDFMSKTPKAMA TKAKIDKWDLIKLSFCTAKET TIRVNRQPTKWEKIFTTYSSDK GLISRIYNELKQIYKKKTNNPIK KWAKDMNRHFSEEDIYAAKKH MKKCSSLAIEMQIKTTMRYH LTPVRMAIIKKSGNNRHAPFSIH THIMFGSLYLQIQKDLSILGFW YPRGILEPIY

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14736	45104	A	14822	1	1698	MEDEMNMKQEGKFREKRIKR NEQSLQEIWVYVVRPNLRLIGV PESDGENGTKLENTLQDIIQENF PNLARQTNIIQIEIQRMPPQRYSS RRATPRHIIVRFTKVEMKEKMS RAAREKEIQTIREYYKHLNAN KLENLEEMDKFLDTCTLPRLNQ EEVESLNRTVTGSEIVAIINSLPT KKSPGPDGFTAIFYQRQSESQI MSEFPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLNEIKEDTKK WKNIPCSWVGRINIVKMAILPK VIYTFNAIPIKLPMFTFFTELEKTT FKFIWNQKRAHVAKSILSQKNK AGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIM LHIYSYLIFDKPEKNKQWGKDS LFNKWCWENWLAICRKLKLDLP FLTPYTKINSRWIKDLNIRPKTIE TLEENLGITIQDIGMGKDFMSK TSKAMSTKAKIDKWDLIKLSF CTAKETIKVNRQPTKWEKIFA TYSSDKGLISRIYNELKQIYKKK VTNNPIKKWVKDMNRHFSKEDI YAAKRHMKKCSSSLAIREMQIK TTMRYHLTPV
14737	45105	B	14823	91	1596	
14738	45106	A	14824	1	2757	

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14739	45107	A	14825	1	2677	MGKKQSGKTGNSKKQSASPPP KEHSSSPAMEQSWMENDFDEI NKIDRLLARLIKKKGEKNQIDT TKNDIGDITTNPTIEIQTIREYY KHLTYTNKLENLEEMDKFLDTY TLPTINQEEIESLNRTITGSEILAI INSLPTKKSPGPDGFTAIFYQRY KEELVPFLLKLFQSIEKEGILLN SFYEASIIIPKPGRDTTKKENFR PISLMNIDAKIFNKILANRIQQHI KKLIHHDQVGFIPGMQGWFNIR KSINVIQHVNRTKDKNRMIISID AEKAFDKIQQPFMLKTLNKLGI DGTYLKIIIRAIYDKHTANIILNG QKLEAFPLKTGTRQGCPLSPLL FNIVLEVLAIRQEKEIKGIQL GKEEVKLSLFADDMIYLENPIV SAQNLLKLISNFSKVSRYKISVQ IPQAFLYTNNRQTESQIMSELPF TIASKRIKYLGIQLTRDVKDLFK ENYKPLLNEIKEDTKKWKNIPC SWAGRINIVKMAILPKNWKKT TLKFIWNQKRARIAKSILSQKN KAGGITLPDFKLYYKATATKTA WYWYQNRDLQWNRTEPSEIT PHIYNYLIFDKPDKNKQWGKDS LFNKWCWENWLAICRKLKLDP FLTPYTKINSRWIKDLNIRPKTI KTLEENLGITIQDIGMGKDFMS KTPKAMATKAKIDKWDLIKQE SFCTAKETTIRVNRQPTKWEKIF ATYSSDKGLISRIYSELKQIYKK
14740	45108	B	14826	1	1186	
14741	45109	A	14827	1	2304	
14742	45110	B	14828	1	2995	
14743	45111	A	14829	1	3095	
14744	45112	A	14830	1	3654	
14745	45113	A	14831	1	3189	
14746	45114	A	14832	1	2064	
14747	45115	B	14833	1	3031	
14748	45116	A	14834	1	3192	

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14749	45117	A	14835	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDDTTYQNLWDTFKA VCRGK FIALNAHKRKQERSKIDTLTSQ KELEKQEQTHSKASRRQEITKIR AELKEIETQ
14750	45118	A	14836	1	3144	
14751	45119	A	14837	113	1336	PTLAGTGNQETSHLGFNAIPIKL RMTFFTEL/EKTTLKFIWNQKR ARITKSILSQKNKAGGITLPDFK LYYKAIVTKTVWYQNRDID QWNRTEPSEIMPHIYNLIFDKP DKNKKWGKDSL FNKWCWEN WLAIRKLLDPFLTSYTKINS RWIKDLNVRPKTIKTLEENLGN TIQDIGMGKDFMSKTPKAMAT KDKIDKWDLIELKSFACTAKETI RVNRQPTWEKIFATYSSDKGL ISRIYNELKQIYKKKTNNPIKKW VKDMNRHFSKEDIYAAKRHMK KRSSSLAIREMQIKATMRYHLT PVRMAIIKSGNSSRSNIVHSVT QANALESSWIPLFLIPHIQYISKP QASSFKMYHVTDPILPPSSQHL DQAAIINLCLQWPLLWFECMCP SKIHMLKLT PQ
14752	45120	B	14838	1	3127	
14753	45121	A	14839	1	2742	
14754	45122	A	14840	1	1998	
14755	45123	A	14841	1	3030	
14756	45124	B	14842	1	2558	
14757	45125	A	14843	1	3828	
14758	45126	A	14844	1	4134	MRKKQSRKTGNSKKQSTSPPPK ERSSSPAMEQSWTENDFDELRE EGFRRSNYSKLQEEIETKGQEV ENLEKNLDKCITRITNIEKCLKE LMELKAKARELHEECRSLRSRC DQLEERVSVMEDEMNMKQE GKFREKRIKRNEQSLQEIWDYV KRPNLPPIDVPESDRENGTKLE NTLQDVIQENFPNLRQANIQI QEIQRMPQRYSSRRATPRHIIVR FTK VEMKEKMLRAAREKAFKQ ASRREDDIAKVTS G
14759	45127	B	14845	1	3555	

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14760	45128	A	14846	1	3345	
14761	45129	A	14847	1	3451	HTKNPSVHHHRQRPKVDKTTK MGKKQNRKTGKSKTQSAFPPP KERSSSPAMEQSWMENDFDEL REEGFRRSNYSELREDIQTGK EVENFEKNLEECITRITNTEKCL KELMELKTKARELREECRLRN WIKSQDPSLCCIQETHLMCRDT HRLKIKGRRKIYQANGKQKKA GVAILVSDKTDKPTKIKRDKE GHYIMVKGSIQQEELTILKIYAP NTGSPRFMKQVLSDLQRDLDS HTLIMGDFNTPLSTLD
14762	45130	A	14848	1	2606	MVASRSSRVGVFYGGQNSVDG VSRSDGSLNELCLYRPPTGAY LAYDTLDVLP SGQFTVNTPID VNGKSL LALLWEHTSLLTSMG GGRWAMQPLGQLGQLEHLGD RRDQVLD RSGRSRLDAAQHL RHRPDRRPQGMVGVLTNQKEP RTRWIHSRILPEVQGGTGTVPSE TIPIDRKEGILPNLFDEASIIIPK RGRDTTKKENFRPISLMNIDAKI LNKILANRNQQHIKKLIHHDQV GFIPGMQGWFNICKSINVIQHIN RTKDKNHMIISIDAEKAFDKIQ QPFMLKTLNKLIGDGYLKIIIRA IYDKPTANIILNGQKLEAFPLKT GTRQGCPLSPLFNIVLEVLAR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLIS NFSKVSA YKINVQKSQAFLYTN NRQTESQIMSVFPFTIASKRIKY LGIQLARNAKDLFKENYKPLLN EIKEDTKKWKNI PCSWVGRINI VKMAILPKVIYRFNAIPIKLPM FFTELEKTTLKFIWNQKRARIA KSILSQKNKAGGITLPDFKLHY KITVTKTAWYWYQNRDIDQW NRTEPSEITPHIYNYLIFDKPEK NKQWGKDSL FNKWCWENWLA ICRKLKLDPFLTPYTKIHPRWIK DLNVRPKTIKTLEENLGNTIQDI GMGKDFMSKTPKAMAAKAKI DKWDLIQLKSFCTAKETTIRVN
14763	45131	A	14849	1	2862	

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14764	45132	A	14850	1	3724	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELWEDIQTKGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELHEECRSLRSR CDQLEERVVSAMEDEMNMKRE GKFREKRKRNEQSLQEWDYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLRQANVQI QEIQRMPQRYSSRRATPRHIIVR FTKVEMKEKMLRAARQKAPH HTYSKIDHIVGSKAL
14765	45133	A	14851	2	2375	
14766	45134	A	14852	1	2376	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKGREITNCLSDHS AIKLELRIKNLTQNRSTTWKLS NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDTFKAVC RGKFIALNAHKRKQERSKIDTL TSQLELEKQEQTTHSKASRRQE ITKIRAELEIETQKTLQKINESR SWFFERINKIDRPLTRLIKKKRE TNQIDAIKNDKGDITADPTDRQ TTIREYYKHLIYANKLENLEEM DIFLDYTLPRLNQEEFESLNRP ITRSEIVAIINSPLTKKSPGPDGF TAEFYQRYKEELRIKYLGIQLT RDVKDLFKENYKPLLKEIKEDT NKWKNIPCSWVGRINIVKMAIL PKVIYRFNAIPIKLPMFFTELE KTTLKFIWNQKRARIAKSILSQ KNKAGGITLPDFKLYYKATVT KTAWYWYQNRDIDQWYRTEP LEITPHIYNYLIFDKPEKNKQW GKDSLFLNLCWENWLAICRKL KLDPFLTPYTKINSRWIKDLNV RPKTIKLEENLGITIQDIGMGK DFMSKTPKAMATKDKIDKWDL IKLKSFACTAKETTIRVNRQPTK WEKIFTTYSSDKGLISRIYNELK QIYKKKTNNPIKKWAKDMNRH FSKEDIYAAKHKMKCCSSSLAI REMQIKTTMRYHLTPVRMAIHK

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14767	45135	A	14853	1	1576	MDKFLDITYTLPRLNQEEVESLN RPITGAEIVAINSLPTKKSPGPD GFTAEFYQRLISNFSKVSGYRIN VQES\QAFLYTINRQTESQIMSA LPLTIASKRIKYLGIQLTRDVKD LFKENYKPLLNEIKEDTNKWK NIPCSWVGRINIVKMAILP/KEL EETTLKFIWNQKRARIAKSILSQ KNKAGGITLPDFKLYYKATVT KTAWYWYQNRDRDQWNRTEP SEIMPHIYNYLIFDKPEKNKQW GKDSL FNKWCWENWLAICRKL KLDPFLTPYTRINSRWIKDLHV RRKTIKTLEENLGNTIQDIGMG KDFMSKTPKAMATKAKIDKW DLIKLSFCTAKETTIRVNRQPT KWEKIFATYSSDKGLISRIYNEL KQIYKKKTNNPIKKWAKDMNR HFSKEDIYAAKHKMKCSSSLA IREMQIKTTMRYHLTPVRMAII KKSGNN/R/CAPGTPERQNHSL WKGS*SQEPSGLAQWIPLPWSP AS*DPLA*NSCCQHSLKSTWD AQACARKLRTLKGYRNCQLE
14768	45136	B	14854	328	1467	
14769	45137	A	14855	3	3412	
14770	45138	A	14856	1	2907	MDKFLNTNTLPRLNQEEVDSL NRPITGSEIVAINSLPTKKSPGP DGFTAEFYQRYKEELRIKYLGI QLTKDVKDLFKENYKPLLKEIK EDKNKWKNIPCSWVGRINIMK MAILPKVIYRFNAIPIKLPMFFI ELEKTTLKFIVNQKRALIAKSIL SQMNRAGGIMLPDFKLYYMAT VTKTAWYWYQNRDIDQWNR EPSEITPHIYNYLIFDKPEKNKK WGKDSL FNKWCWENWLAICR KLKLDPFLTPYTKI

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14771	45139	A	14857	1402	3004	TEPKTKTT*LSA*MQKGPLTKF NNPSC*KLLIN/IVLEVLARAIQ EKEIKGIQVGKEEVKLSLFADD MIVYLENPIVSAQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNEIK EDTNKWKNILCSWVGRINIVK MAILPKVIYRFNAIPIKLPMFFT ELEETTLKFIWNQKRARIAKAIL SQKKKAGGITLPDFKLYYKATV TKTAWYWYQNTDIEQWNRTEP SEIMLHIYNYLIFDQPEKNKQW GKDSL FNKWCWENWLAICRKL KLDPFLTPYTKINSRWIKDLNV RPKTIKTLEENLGITIQDISMGK DFMSKTPKAKATKAKIDKWDL IKLKSFCTAKETTIRVNRQPTK WEKIFATYSSDKGLISRIYNELK QIYKIKTNNPIEKWVKDMNRHF SKEDIYAAKKHMKKCSSLAIR EMQIKTTMRYHLTAVRMAIHKK SGNNSLIVGASMDTSLSGPIPY DIQHFD RFGSVTVRRGCAIEFY.

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14772	45140	A	14858	884	2925	GIKYLGIQLTRDVKDLFKERS/Y EPLLNEIKEDTNKWKNI PCSWV GRINIVKMAILPKVIYRFNAIPIK LPM TFFTELEKTTLKFIWNQKR ALIAKSILSQKNKAGGITLPDFK LYYKATVTKTAWYWYQNRDI DQWNRTEPSEITLHIYNYLIFDK PEKNKQWGKDSL FNKWCWEN WLAICRKLKLPFLT PYTKINSR WIKDLNVRPKTIKTLEENLGITI QDIGMGKDYMSKTPKAMATK AKIDKWDLIKLSFCTAKETTIR VNRQPTKWEKIFATYSSDKGLI SRIYNELKQIYKKKTNNPIKKW VKDMNRHFSKEDIYA AKKHM KKCSPSLAIREMQIKTTMRYHL TPVRMAI I KSGNNSPTCVSQD WKL TQAVGLWSAEAEAPKSAQ RRPLAEGHRAAVQRDGSGLQL LCTVKLQVLP CIIAQNGGRKA TSSLEAELTSWRPLCLEDGTGF RGEDTLETVNAEGRENRRKAG HRAAGSSASRRCRNTGRSVQRL RPQKTQAFPTHCHFCLILVVKA TQLNPKSRVRKVFPFAPMKHGK ALAGPWANICAGKSSNEIRTC RHGCGQYSAQRSQRPHQGV DI LCSAGSTVYAPFTGMIVGQEK YQNKNA INNGVRISGRGFCVK MFYIKPIKYKGPIKKGEKLG TLL PLQKVYPGIQSHVHIENCSSDP
14773	45141	A	14859	1	2577	

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14774	45142	A	14860	3019	5574	RETRGEVKNSKNQSTSAPPKDC SSLADPKKIQTIREYYKHLYPN KLENQEEMDKFLDTYTLPRLN QEEVESLNRPI TGSEIVAIINSLP TKKSPGPDGFTAIFYQRYKEEL VPFLLKLFQSIEKEGILPNSFYE ASIIIPKLGRDTTKKENFRPISV MNIDVKILNKILANRIQQHIKKL IHHDQVGFIPGMQGWFNHHSI NVIQHINRTKDKNHMIISIHAEK AFDKIQQHFMCLKTLNKLIGDGT YLKIIIRAIYDKPTANIILNGQKL EAFPLKIGTRQGCPLSPLLFNIV LEVLAIRAEKEIKGIQLGKEV VKLSLFADDMIVYLENPIVSAQ NLLKLISNFGKVSQYKINVQKS QAFLYTNNRQTESQIMSELPFTI ASKRIKYLGIQLTRDVKDLFKE NYKPLLNEIKEDTNKWKNIPCS WVGRJNIVKMAVLPKLPMTFFT ELEK\TTLLKFIWNQKRARIAKSI LSQKNKAGGITLPDFKLYYKAT ATKTAWYQYQNRDLQWNRT EPSEITPHIYNYLIFDKPDKNKQ WGKDSL FNKWCWENWLAICR KLKLDPFLTPYTKINSRWIKDL NIRPKTIKTLEENLGITIQDIGMG KDFMSKTPKAMATKAKIDKW DLIKQESFCTAKETTIRVNRQPT KWEKIFATYSSDKGLISRIYSEL KQIYKKKTNNPIKKWAKDMNR HFSKEDIYAAKKHMKKCPSSLA
14775	45143	A	14861	1895	6140	
14776	45144	A	14862	1	2875	MKAEIKVFFETNENKDTTYQNL WDTFKA VCRGKFIALNAHKRK QERSKIDTLTSQLEKEKQEQT HSKASRRQEITKIRAELEKIQTQ KTLQKINESRSWFFERINKIDRS LARLIKKKREKNQIDTIKNDKG DITDPTEIQTIREYYKHLNAN KLENLEEMDKFLDTYTLPRLNQ EEVESLNRPI TGAEIVAIINSLPT KKSPGPDGFTAIFYQSWAETQP KKENFRPISLMNIDAKILNKILA KRJQQHIK

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14777	45145	A	14863	2843	4460	HQHQQKPHPHRNPIQKSPTS KT KVLEVLARAIRQEQS/GIQIGS QEVKLSLLEDDMIVHLENPIISA KNLLQLISNFTK VSGYKINVQK SQAFPYTNKTQIENQIMSELPFT IATKRIKYLGIKLTRDVKDLFK NNYKPLFKEIREDTNK WKNIPC SWVGRINIVKMAILPKVIYRFN APIKLPMTFFTELEETTLKFIW NQKRARIAKSILSQKNKAGGIT LPDFKLYYKATVTKTAWYWY QNRDRDQWNRTEPSEIMPHIYN YLIFDKPEKNKQWGKDSL FNK WC*ENWLTICKRLKLDPFLTPY TKINSRWIKDLNVRPKTIKTL EE NLGITIQDIGIGKDFMCKTPKA MATKAKIDKWDLIKLSFCTA KETTIRVNRQPTKWEKIFATYS SDKGLISRIYNELKQIYKKKTN NPIKKWAKDMNRHFSKEDIYA AKKHMKKCSSSLAIREMQIKTT MRYHLTPVRMAIHKSGNNRC WRRCGEIGTLLHCWWDCKPVQ PLWKS VWRFLRDLELEIPFDP AI PLLGIYPKGYKSC
14778	45146	A	14864	1	8335	MGKKQNRKTGNSKMQSASPPP KERSSSPATDQSWMENDFDEL REEGFRRSNYSELREDIQTGK EVENFEKNLEECITRITNTEKCL KELMELKTKARELREECRLRS RCDQLEERVSA MEDEMNMK QEGKIKRDKEGHYIMVKGSIQQ EELTILNIYAPNTGAPRFIKQVL SDLQRDLDSHTLIMGDFNTSLL TLDRSMRQKVNKDTQELNSSL HQADLIDIYRTLHPKSIEYTFFS APHHTYSKIDHIVGS
14779	45147	A	14865	1	3166	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSMRQKVNK DTQELNSALHQADLIDISRTLHP KSTEYTFFSAPHHTYSKIDHIVG SKALLSKCKRTEIITNYLSDHSA IKLELRIKNLTQSRSTTWKLN LLNDYWVHNEMKAEIKMFFE TNENKDTTYQNLWDAFKAVCR EKFIALNAYKRKQERSKIDTLTS QLKELEKQEQT HSKASRRQEIT KIRAE LKEIETQ
14780	45148	A	14866	1	3912	
14781	45149	B	14867	1	2832	

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14782	45150	A	14868	1944	3531	LRDCKRINQHPVKTDQSAFCK M/API/MQDVVLEVLRARIRQEK EIKGIQLGKEEVKLSLFADDMI VYLENPIVSAQNLLKLISNFSKV SGYKINAQKSQAFLYTNNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLKEITEDT NKWKNIPCSWVGRINIVKMAIL PKVIYRFNAIPIKLPMTFFTELE KTTLKFIWNQKRARMASILSQ KNKAGGITLPDFKLYYKATVT KTAWYWYQNRDQDQWNRTEP SEITPHIYNLIFDKPDKNKQW GKDSL FNK WGWENWLAICRKL KLDPF LTPYTRINSRWIKDLNV RPKTIKTLEENLDITIQDIGMGK DFMSKTPKAMATKAKIDK WDL IKLKSFCIAKETTIRVNRQPTKW EKIFATYSPDKGLISRIYNELKQI YKKKTNNPIKKWAKDMNRHFS KEDIYAACKHMKRCSSSLAIRE IQIKTTMRYHLTPVRMAIHKKSG NN/R/CF*WQKPGPSG*ALRSWK EDIAGTSYVGMNQCMRKNTK TLI
14783	45151	A	14869	1182	3891	KMIKGISTTDLTEIQTIREYYK HLYANKLENLEEMDKFLDITYT LPRLNQEEVESLNRPIGTAEIVA IINSLPTKRSAGPDGFTAIFYQR YKEELVPFLKLFQSIEKEGILP NSFCEASIIIPKPGRDTTKKENF RPISLMNIDAKILNKILAKRIQQ HIKKLIHHDQVGFIPGMQGWFN IRKSINVIQHINRAKDKNHMIISI DAEKAFDKIQHFMLKTLNRL GIDGTYFKIIRAIYDKPTANIILN GQKL
14784	45152	A	14870	997	1161	CTSTVIMSICTKLQNKEHVIEAL RRAKFKFPGHPKIHISKK*DFT KFNADEFED
14785	45153	A	14871	1	1458	
14786	45154	B	14872	53	1468	
14787	45155	A	14873	1819	2235	

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14788	45156	A	14874	707	1613	VRARAGERARVVRENGKAELP VALVLP SRALSHTFTCTDLKVQ FHQRLRLQEKSGKFIGSNMSQE SDNNKRL VALVPMPSDPPFNTR RAYTSEDEAWKSYLENPLTAA TKAMMSINGDEDSAAA/HRPAL *LLQENQSEPIPREGVGWG*GE ER\ERMTEEEQEGEGGGGGRGG GEGEEEEEEEDVEEEEEEEEEE EKEEEEKGGEKEEENEEKEKQR EGRRGKETSNGQMVRPRLPP HQEHSRNYLVFIMDSNMIEICF REASISPKAQAYVLIPDFKNCIY GWEEDSIEILWGLPGSHVL
14789	45157	A	14875	3	346	QRSKCKVPGLGKPLTPPKPE K\PQGQKDRRPTGFKP*N*RRRR SEKSLRFFPPGS/PQAVPIPVGFS FDTNL*HFL*KPLIFIMGGTVSL PHPRSPSAPPGTPQRPMTFCHLK Q
14790	45158	A	14876	1868	2666	GLLLSPFQGLQGVAPRKTRSNL HPGSLAHL SHQPPAPWPPRGLW PPGQETSCHCASGRALGTGSPR PPHAPWLHLEPQRAPHSGAPSP GSSPSAPLHIPVAPENLQSLGHR SPPNPSGPD CYPSPSGP/PPSSLD SPGLQTAPGAMFLSPRSGVQSA CPTPRSLDLRNSPASTPDQSVCP TPLSLAWLWPPPSPTSAKSLLFT LTSEVQSFSPTPIPPGSSDPPLSK QPASGSCLS SSGHLTSPSVPRHSP WPRSSPQNPHSWTL PSS
14791	45159	A	14877	762	1528	AIPGGAAWPFRAEGAQGPGRK LTFKPLGAQRQSVSGGSEVPPL PLHLKMAPEMPVAL*SPGTGV HPSLLPPT/GPKVPPGRIDRGVPV TLAPQVGTAPIQWHCRGSRCP G/SRPPGGWR/RPCQAPAPPLGQ HLPRLLPPPTGPQGRPLTPSEP PPWSCWLPASPPAGPSRRVGG GPGTCQGLLR S*GLLLSPFQGL QGVAPRKTRSNLHPGSLAHL SH QPPAPWPPRGLWPPGQETSCHC ASGRAVGTGSRRPRA

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14792	45160	A	14878	1	963	MARKDCCSPPGDSSPGRLPLVL PAQCLVLLRLQITAFSSIHVAAN DMMSFFLMAKQDSIAYKYRIF IHSSVDGHHARPLSPSLVVENGC GKQVLLCSDNASPEVSTVALA SCPGTFPRHCGAAESTHICATG LGELTPQGHGHIPNKLACCAT GLEELVPRDHGKLGISWFGFIA GAYLNLARVVGECQGSYGYLS LHHYCYCHYYHYCHYHYHAA TY*NHYYHYHH/HHNNSYHHH SYHYHYSYHFYHYHYNKYHHH YHCRHYHHPHDYYHYHA/RHY SLYYCHYLCHYYRYCYHDHSS HQHNHHECLP*VRHSAEHLQY
14793	45161	A	14879	105	1448	CHQPPASPSRREPGGSEKPPER GCPAWEPAQAQGPVQPLGEDGP RLCQPPPPSPDHALG/PYGHQRS GRPTLPGPRK\PAKKRGR*PSSS TGQ*SHRPTTGTPGGQAGGSG* VTAGGQ*PPQNL*AKISCPEMP GPSPGMQQGVKHPSLFSHQTV AKGFTTRWNCRQVCPHRGERK WISSVRPCGGALAPSCA/DGLR GRRTLGSQPLW/PPAAVSAVG QLQPPCHTLTPHPLQNSTQHAE PQRGSVYSL*EGTSPILAAVPFA PHIEKRPFSTFPAGDA*PSEAHA/ PGPACCHSPGGLEGVSRAGPG TSAGRIPGNRERAWPPHSGPS TPPDTSCG/SPGPQLARAGSRA NGSTLPPTRQGFPLGRKDSAGA CGQP*AEGAAAGPSRSPAAER AVLPLPR\GRRKCRGGGPGVET GVSGARRGGDRSGCSPAALDA EAPASLAGVSIREG
14794	45162	A	14880	1	2421	

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14795	45163	A	14881	1080	2571	VHCRFWILALCQMSRLQKSPLL FNIVLEVLA KA I K Q E K I K G I Q L GKEEVKLSLFADDMIVYLENPI V/SAQNLLNLISNFSRVSGYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKRIKYLGIQLTRDVKD LFKENYKPLLNEIKEDTKKWK NIPCSWVGGRINIMKMAILPKVI YRFNAIPIKLPLTFFTDLERTTL NFICNQKRAPTL PQVQSLS\QKN KAG\GITLPDFKLYLQGLQ*PK TAWYWY\QNRDIDQWNRTEPS EIMPHIYNYLIFDKPWEK/HKQ WGKDSL FNKWCWENWLAICR KLKLDPFLTPYTKINSRWINDL NVR\PKTIK\TLEENLGIT\IQD\IG MGKDFMSNKTPKA\MA\TKAKI DKWDL\KLKSF\CTAKETTIRV NR\QPTKWKKIFTTYSSDKGLIS RIYNELKQIYKKKTNNPIKKWA KDMNRHFSKEDIYA AKKHKM KCSTSLAIREMQIKTTMRYHLT PVRMAIHKSENSRCWR
14796	45164	A	14882	136	420	RESRNL SRGESEDP A EPSRNG *EHPLCYLQ*EFLQVLTMLQAE GTMHHFRSICQVNRNFLERGH/ SPPSPAPPETHGTGSPRPPSGRSR IRAYLH
14797	45165	B	14883	1	1197	
14798	45166	A	14884	3	538	GAGTDGGRT PAPRAFPDPLGEA RTSAPTGPAPGGSASAARPA VRPAEPA AEETQE QPRAGKRAI HEYRYVYVQQRKTD PQPAVA VFGIPADGD*VSRTAYHAHQPL AWSGR/E*MCLSMAMWNT*ST MKK*ISIRVISRCSGPVHRTN*QI PEPVRAWRF LICRCICFSPGRWI KT

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14799	45167	A	14885	1208	2765	KMAPTWDKMVSSAQMGFNLQ ALLEQLSQDELSKFKYLITFSL AHELQKIPHKEVDKADGKQLV EILTTHCDSYWEMASLQVFEL MHRMDLSERAKDEVREAALKS FNKRKPLSLGITRKEPPLDVDE MLERFKTEAQFTETKGNVICL GKEVFKGKKPKDKNRCRYILK TKFREMWKSWPGDSKEV/RGY G*EIQDADPIQQPQGASRALPY TVVLYGPAGLGKTTLAQKLML DWAEDNLIHKFYAFYLSCREL SRLGPCSFAELVFRDWPELQDD IPHILAQARKILFVIDGFDELGA APGALIEDICGDWEKKKPVVPL LGSLNLRVPLCIENKLGVGGED WGDQLRVYWWNPSKREGGSG WSHGSEDANQSLKHLRLSANV LLDEGAMLLYKTMTRPKHFLQ MLSPWETTIAQIIMLDWAEETS SDKLKYAFYCSCRELSRLCPCN FEELVFRDWPELQDDIPHILAQ ARKILFVIDGFDPLGGRTLWTL TRGHLRELGNRRKRCPSSWGV
14800	45168	A	14886	213	625	EPGIDTSCLCAGRCRPGKGRA CGGSSPCSWPGQPAPAAAAV PACPSGGRGAGPIQSGTCCSR ADSRCTSWTAW/WPPGLGAAT VQTVMS*TV/WPMHPVPQAGW LALGQGAAAAKHPLTSATTRS WCLGVGPGPWM
14801	45169	A	14887	1	375	MCNAQVLEYMGKSSSLTSDL QLVRDALRSLRNSFSGHDPQHH TIDSLEQGISSLMERLHVMTQ KKQERKPPLVIPRQT/WVWSGP PANSNRPAAGPDC*KEN*RDA LRSLRNSFSGHDPQHHTIDSLEQ GISSLMERLHVMTQKKQERKP PLVIPRQTGSGVDLQQTPTDLQ LRDLTVRRKTNEQKGIASASTK RTSTPKPHL

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14802	45170	A	14888	1	750	MGELNQGSWRQGHLPDAA GIAIRVPRRRKDESRKNPTRKPH SWKPTKNFEDDVEMKRSM RIEDTHSGPSAAGVLEFAGGPL QTLFAWVSPAEEAQRLLPVP /CLWKLCPRGAPARC\RQNSPSK LPSGFVYTVRGKLPTQASVVVD APPATKLECPRSTSDCCAGSKN FKPVDLSLLASVGPRVNLQ SHYGKISVTVAGHCPTHATGRI LGKQALRWSPMCSMFIGRALG LVPVEGGLLQIA
14803	45171	A	14889	81	164	VGKQGLEWTPANSSRPAAEGP DC*KEN
14804	45172	A	14890	1	674	MVVYACSPSYLEAEVGGSL VEATNPKNSSKKFLDLISEFCK VSGYKISVHKSVALLYTKNDQ AATQIKNLIPFTTAAKQFKYFGI YLTKEEERLKPSRKKITKKHTK KRTASLILHAMICSQIPKQQQNE KYQVPQFDQSTIKNIESAKGLD VWDSWPLQNADGTPPLVIPRQ T/WVWSGPPANSNRPAAGPDC QKEN*QTERNSINIKKKDIHTKT PLCI
14805	45173	A	14891	619	931	YLLMDFPLLHSLVSLGDKVP HEFWRGCPSCSFGPRFWAGV LVL*APKL*LRQVRSAGKRCGQ KW*IK*/SDRLCVD*NK/WSDSD LKPATSCSLIVTCHSLLGF
14806	45174	B	14892	1	658	
14807	45175	A	14893	48	288	LCSIKKPEKSLLCW*YPGNRVW SGPPAKSNRPAAEGPDC*KEN* QTERNSINIKKKDIHTKTPSEGH QHQRPKTKPGRI
14808	45176	A	14894	801	1157	QSGPSAAGLLDFAGGPLQTLFA RVSPAEEAQRLLPFPSSGKL RPRGAPARCQPELSCMRCL*SL LGGVSQSGYMGVRDPFEEAAC PLSELECSAGRSAALLRMVRQG HLGLLKLRP

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14809	45177	A	14895	1	1891	MPVWVTVVKSWNTQIGRPGH VSALGFELTKNPWPLTYESGDG RSLGKPGAVSRRGGRHGHPHQ QAECDLPAAGRIAGPCERGLERQ EKLPPAPQGGAWHLRLSRERFK SEDAPKIHVALGGSFLNLAFL LVNVGSGSKGSDAACWARGA VFHYFLLCAFTWMGLEAFHLY LLAVRVFNTYFGHYFLKLSLVG WGLPALMVIGTGSANSYGLYTI RDRENRTSLELCWFREGTTMY ALYITVHGYYFLITFLFGMVVLA LVVWKIFTLSRATAVKERGKN RKKVLTLGLSSLVGVTWGLAI FTPLGLSTVYIFALFNSLQAHKQ LKDRKVGPHFMQGA VFLEGKF WGVDIASFEPQEQFWWTNLGK EDEDKSFDMPHSWVEQIEISPEE EAMGSAQMVRGVSGPERGSKK RPQLTVSTAFETRCPNGKKVIQ YKRAKLEKWAPYLN S NGLVSR LTTYEDLQCTNILEIKEWYQNR EDMLELKHINKTTDLKTDYFKP GHPQALRVHSYKSMQPEMDRV IEFYETARVDGLMKREETPRTM TEYYQGRPDFLSYRHASFG/RPS QEAHSEQCRVKPPAHCAKPAE DDV/RKSACFWSRRSASSCATT AVRTTSRPPSASSCGAPRWTA
14810	45178	A	14897	1	425	HVQQTEISRTVSTGSPHILSCSVP VTLPNGPVLWFKGN/AGPNRKL IYNFKQGNFPRVKEIGDTTKPG NTDFSTRIREISLADAGTY YCV KFIKGRAIKEYQSGRGTQVFVT VSYSSRSQKSEICISGLKSRHQQ NCSFWRF
14811	45179	A	14898	1	393	RQGNFPRAKQIGDTTKPGNTDF STRIREISLADVGTYYCVKFIKG RAIKEYQSGRGTQVFVTEQNP RPPKNRPAGRAGSRAHHDAHT CLSALPERNSTNYFVQPCCCLR LLGLTGFAVKIIQTGKERTSK

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14812	45180	A	14899	1	753	MGSSLSPLVLYVALPVRQPLLRS VVEERSTKMRVSGSPGFQAKFRF YSQGLSWSARGEGLVPAFWL QPYPRLNFKAEEMTEQKENQT YVDGGFRPYIHRRKNLTEGHK AEKEMEPWDGFSDESCRTHCQ VHDYAKGHGEVQRERVDEQK EHLGGRRQDCQQQHLNRRRLHC /TVSGEAPSEASGSVRGHGRAH GLAGSERHGHDDHAAPQHLLQ SVDADHVVPVAWYQFWDDEG RGILSPGDHKKPDRRGAAALY
14813	45181	A	14900	6	726	VEGISRTGIQAEQAPGFTTMP VSVNPGDVLTLACNMSALSPE GPVLWFKSIGPGQQLIFSCNGS HFPRVTPVENTMVDQTDYSIILS CSVPNTLPNGPVLWFKGTGPNR KLIYNFKQGNFPRVKEIGDTTK PGNTDFSTRIREISLADAGTYYC VKFIKGRAIKEYQSGRGTQVFV TGEYVSYPYPLVYNS\PLWDE ASRGRSRQQSLLFCSLHW*YPR KQDLEWTSSKLQQTCCRVA
14814	45182	A	14901	760	978	KKLLLLLLCGIEWHGFSSDSGS GGWVPEG*K*GCEHELLPEDVP SCFGWAECWLVRRTLPLFHYV ELCYSFHG
14815	45183	B	14902	772	1165	
14816	45184	A	14903	1	2133	
14817	45185	A	14904	1	1311	MATTPGRALGSLLPTLLGLTA GQPFISLTGPSHRTSPGDSVPFN CTAVPFNSQDFSRDFNVTWLK DSDEHPASAQRLVPDNGGNDFI TSKAWVTLTRQDVSEITCEVT HRLAEPLKTTMNLSQATRNP DGTYSLEHTWQAEATLEEREF ACWVVHDEQPPLKANVTLQAAQ VRRQKGQSVPYKLGGLQR SEPGTRIRLTASSGFSTHQVT TWLKNKHELPPNPQTSVQYSGH TYNVTSSVLVPLMDDDVFSHV VCHVEHKLWFFQKTTGLDQY L/QG/DP*QLCGGHLTPSSPRAP PQLPGLQHP/VVFHSQVLLFSC LVAVTCLVQRFYPQNVHLAWLE DCHTLKGTEQPTLKKNNDRSY TLEKLLLVNASVQGPVRLTC MMEHEGQPPKRANLVLSTAAH TAYKPIGSTESIMVTMIITISQM

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14818	45186	A	14905	3	341	RRATRPGN*GGRHNAGRSSARL ETGRPAMAPQGRPRPLGCRTPQ HPGHWPSAPGLLPAPGPVAG MTQAQRWCPEPDAHFLQYTLY FVRHIPQLPKQTPHHYIATRLPC ATQ
14819	45187	A	14906	154	679	GVCCPLLGGVSS*ATWGS GTT* GGNTHLI
14820	45188	B	14907	1	2554	
14821	45189	A	14908	387	826	ARAACLPRGSARGTAGAGEEPP DPAPLHLRGEGPAP/HRPRSPRG MGWPAAPSTRSPST*RRCPLPP RPRWSP*SHPGPRASARLP*LS *RASRSSEAPSPGSLG SVAGQD CSRTGTGFSPPAFSDGQQT PPP APSSVPTLNSLG
14822	45190	A	14909	86	2223	GQEPQVREQKACHHLGSSPPPS WEL*EQRPA GP*N**PSTLTGT GSTTT*QIRMKVN*MGN/DSPQ GKNTPKMYSGEFSPVRVHVPFS LSDLKQIKIDLKGFSDDPDGYID VLQGEDILAKAGAIRHLNIGEG THVCCPLLEEGINPEVWATEGK YGRAKNAHP IQVKLKDSASFPY QRQYPLRPEAQQGLQKIVKDL KAQGLVKPCSSPCNTPI LGVQK PNGQWRLVQDLRI NEAIVPLY PAVPNPYTPLSQILEEAEWFTVL DLRDAFFCIPVHPDSQFLFAFED PLNPMSQLTWTVL PQGFRDSPY LFGQALAQDLSQFSYLDTHVL WYMDDL LLAARSETLCHQATQ ALLNFLATCGYK VSKPKAQLC LQQVKHLRLKLSKGTRALSEER IQPISAYPHPKTLKQLRMFLGIT GFCQIWINRYGKIARPLYTLIKE TQKANTHLVRR TSLQPVAYLS KETGTSLQPVAYLSKEIDVVAK RWP HCLRVVAAIAVLVSKAVK MIQGRALT VWTSHDVNSILTAK GDLWLSDNHNEEKIEHNWQQV IAQTYAAQGD LLEVPLTDPDLN LYTDGSSFVEKGLRKAAYAVFS DNGILES NPLTPGTSTQLAELIA VTQALELEGKREPENPADNASY SCEPLEDLRLLFRRQPIEAVKLQ MVLQMEPQM QSMTKIYRGPLD WPASPCSNVDDIEGTPPKEISTA

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14823	45191	A	14910	929	1324	RRYQVQRPSEGTLVYLFWPV*/ PVVGVDPLPTGPDYSLLVPI PPRARTPRWA*A*MKGCRRSAT A*WCMC*SCRVPSPCTPMFHS PCSAMTAVTPSLARP*THGSPP KAQGAPQGVKGPSSGLEAPPW A
14824	45192	A	14911	2	286	
14825	45193	A	14912	220	249	P*N**PSTLTTGTGSTTT*QIRM KVN*MGN/DSPQGGKNTPKMYS GEFSPVRVHVPFSLSDLKQIKID LGKFSDDPDGYIDVLQ
14826	45194	A	14913	1	163	EPENPADNASYSCEPLEDLRL FRRQPIEAVKLQMVLMQEPQM QSMTKIYRGPLDWPASPCS*DF LGRGAFNVINIGAWASRPVQGS AVDLSHGLHLGLHLKNHL
14827	45195	A	14914	1	287	
14828	45196	A	14915	2498	2788	
14829	45197	A	14916	112	333	
14830	45198	A	14917	329	1666	
14831	45199	A	14918	1	756	
14832	45200	A	14919	1256	1651	RRYQVQRPSEGTLVYLFWPV*/ PVVGVDPLPTGPDYSLLVPI PPRARTPRWA*A*MKGCRRSAT A*WCMC*SCRVPSPCTPMFHS PCSAMTAVTPSLARP*THGSPP KAQGAPQGVKGPSSGLEAPPW A
14833	45201	A	14920	1	987	MLVLGYNRKNTTEGTQKQKGT NASDFHFLSQVLEQVVSPKGSK EAQCCVLRHLGCESSESAPGIPP NLGIQLLTWAVMWDPFPTTLA RAPSLALELMTQYFNNWNWV YNNITDQGESKMSKLKGKERR QREGERRERKREREREKRESQR KERKREKKGKKREREKDRSDL KQIKIDLKGFSDTPDGYIDVLQ GLGQPYLTLWRDIMLLLDQTL TPNERSAAITAVREFGDLWYLS QVNDRKITEEREQFPTGQQA VP SVDPHWDTESEHGDWCHRYLL TDVLEGLRKRTRKKPIN*SMISTI TQGKEENPTAFLERLREALRKH
14834	45202	A	14921	473	1015	
14835	45203	A	14922	3	937	
14836	45204	A	14923	530	612	LQAKVFFLLRWPAIRG*NYGP RGVPH
14837	45205	A	14924	101	430	

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14838	45206	A	14925	1	1587	MAALTLRGVRELLKRVDLATV PRRHRYKKKWAATEPKFPAVR LALQNFDMTYSVQFGDLWPSIR VSLLEQKYGALVNNFAAWDH PGDIVLDLCAAPGGKTLALLQT GCCLTWSRKCAALSMFSRPA RCLCRARTTAPRAVRRPDQRR ATAAATKQARATPEAPGSAA HSSYCTMIPSACCCLPRQLKPPH AQPARSAKPGLDQPGSHARL RGRGGEARQSLEAIRGGPSGIA PSDIPLPAKPSRRVIAQTYAARG NLLEVPLTDPDLNLYIDGSSFVE KRLRKAGIKAVKLQIVLQMEPQ MQPMTKIYCGPLDQPASPRSNV DDIEGTNASDFPFLSQVLEQVV SPKGSKEAQCCVLRPLGCESNL KQIKIDLKGFSDTPDGYIDVLQ GLGQPYYLTVWRDIMLLLDQTL TPNERSAAITAVREFGDLWYLS QVNDRKITEEREQFPTGQQAVP SVDPHWDTESEHGDWCHRYLL TDVLEGLRKRTRKPIN*SMISTI TQGKEENPTAFLERLREALRKH
14839	45207	B	14926	1	939	
14840	45208	A	14927	1	4317	MQSMTKMYCGPLDQPASPCSN VDDIEVKLEIMLLTERDDGKEV LDVGEERRYIEEYDSKWTRK YNCLAVLRVHSGSQITTMKLIL WYLVVALWCFFKDGGKIAASRS GGFSYGSSSGDLDRKKPLFSL EFGSPGETEDKSRQRQDAGSPK SEDTAGGFFNSSSSGSDSRTK PFFSLGLGAPGKAEDKSGDSQD AGGKSSEDTPGGFFYGSSSSG DSDKKKPLFSFEFGATGEDEDK SRERWDAGNSRSED
14841	45209	B	14928	110	269	
14842	45210	A	14929	1	561	EVFPACSQLVYWGKPITIYPLCE NNVYMLSPNASVCLYSPLAEQ FSHQFPSHDLPSVLAKFSLPVSL SEFRNPLAPAVQETQLIQMVV WMLQRRLIQLHTYVCLMASP SEEEPRPREDDVPFTARVGGRS LSTPNALSFGSPTSSDDMTLTSP SMDNSSAELLPSGDSPLNQRM ENLLASLSEH

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14843	45211	A	14930	1891	2522	GLSNQNNQPGRCIPDAHPVQDL VQDLVHTWCRVPCTSYVPCV* VPGAYLVHTRCIPGAGPGAYPV HTWCRTWCIPGAGFPAL/RPYH ALLLSDEKSLLGELPIDCSPAL VRVIKTTSVAVKNLQQLAQDAD LALLQAMGSAVALVMWAWP RATGPLKYCLRVGAGGACGWR PRLVAVSRALLLVWRCGSPWG PALAWQKSPEYSTKVLEKQ
14844	45212	C	14931	113	274	
14845	45213	A	14932	1	1634	MEIPAVILTVAPILHLTSCGFV TGDGLKQAEKGKCAPEEWNPTK FIKLTDNQACFACGLWPLSEIQ RRTSRTVTIISRISALREKGNR KPTSISGSVNEMRQVLVKDQVS MPRVLPTHIFVPDEAGFSAGAV WPCAAPLWGSSWTPKVENCS FYIRLSFAISVGGDELKIAKLVS AFPERAYDLVGHQHQRPKVDK TTKMGRNQSRKAENSKNQNM SPPKEHNSSPAREQNWMEF DELREVGFRRSVITNFSELKEH VLTHHKEAKNLEKRLDEWLTR INSVEKSLNDLMELKTTTLREL EAYISFNSQFDQAEERSVIEDQ ISEIKQEVKFKREKRVKRNEQSL QEIWDYVKRP\NLRLIGIPESDE ENGTKLENTLQDIIQENFPNIAR QANIQI/QGKLQRTPTKVASSRT ATPRHISVGSPLNMK\EKILR AAQRERSGLPTKGKPFRLTAAD LSAETSTSQKTEWGPIFNILKEK NF\QPRNISYPAK\LSFISEGEIKYF TDQAKCLRDFVTTTAFSCLP*K STRPALKELLKGST

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15459	45827	A	15549	1	1214	MEEEEIAALVIDNGSGMCKAGF AGDDAPRAVFPISVGRPRHQGV MVGMGQKDSYVGDEAQSCKRG ILTLKYPIEHGIVTNWDDMEKI WHHTFYNELRVAPEEHPVLLTE APLNPKANREKMTQIMFETFNT PAMYVAIQAVLSLYASGRRTGI VMDSGDGVTHTVPIYEGYALP HAILRLDLAGRDLTDYLMKILT ERGYSFTTTAEREIVRDIKEKLC YVALDFEQEMATAA\SSSSLEK SYELPDSPRSSTNWQLSGFRLPL RHSFQPSFLG\MESCG\HETTF\N SIMK\CDVDIRKDL\ANTVLS GRTPPCTLGIADRMQKEITALA PSTMKIKIIPPERKYSVWIGGF HPWAWLSHLSSKMWVQQARS MTESGPLHSSTANGFLGGLLTL VAFTPFLWTKP
15460	45828	A	15550	1	2355	MKQITFAPRNHLLTNTNTWTPD SQWLVFDMRTSGASFTGETIER VNIPTGYVEKPNKQCRHSVTRY GHGGHSDHTPSLT VATVATQIT PRHSGHGHSCDRNLSLATATA ATLITPHLLWPRWPLGSHSVT WCGHGGHSDHTPSPTTATAVT RITSRHPLRPQQLGSHPVTHYS HGSHTDCIPVTRYAHGGHSDHT PSLAMATAATQMALCHSLWPR QPLGYLVNKIRRKRCTDGVSPS GKAPVFDTGIPWFESRYPSHLL RVSGSPPGYWGIKRHQILNVS NMFGKFKTNLLGYRQAVRHRI LIPAFRGSNPRT PANLFKTLTLIS NMRALENDFFNSPPRKTVQFG GTVTEVLLKYKTAIEKRLEKLA VDPHRDRAQMLKVENVQQAW QQWINKLPPARREDEDVKEIR WMIEELRVSYFAQQLGKNSRA ESMLWSFHKAAIEAARTNIIQA QTRVEAAQATERRIAADIDDSE LKAPRDGRVQYRVAKPGEVLA AGGRVLNMVDLSDVYMTFFLP TEQAGTLKLGGEARLILDAAPD LRIPATISFVASVAQFTPKTVET SDERLKL MFRVKARIPPELLQQ HLEYVKTGLPGVAWSFLYSINQ TICLR LDSIEAKLQALEATCKSL EEKLDLVTNKQHSPIQVPMVA GSPLRTTQMCNKVR/CVNP*AT VVPPPVPQPTTQQYQGLDAGA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
15454	45822	A	15544	85	2249	SAEAMSGDGATEQAAEYVPEK VKKAEEKLEENPYDLDAWSILI REAQNQPIDKARKTYERLVAQF PSSGRFWKLYIEAEIKAKNYDK GEKLFQRCLMKVLHIDLWKCY LSYVRETKGKLP SYKGKMAQ AYDFALDKIGMEIMSYQIWVD YINFLKGVEAVGSAENQRITA VRRVYQRGCVNPMINIEQLWR DYNKYEEGINIHLAKKMIEDRS RDYMNARRVAKEYETVMKGL DRNAPSVPPQNTPEAQQVDM WKKYIQWEKSNPLRTEDQTLIT KRVMFA YEQCLLVLGHPDIW YEAQYLEQSSKLLAEKGDMN NAKLFSDEAANIYERAISTLLK KNMLLYFAYADYEE SRMKYEK VHSIYNRLLAIEDIDPTLVYIQY MKFARRAEGIKSGRMIFKKARE DTRTRHHVYVTAALMEYYCSK DKSVAFKIFELGLKKYGDIPY VLAYIDYLSHLNEDNNTVLFE RVLTSGSLPPEKSGEIWARFLAF ESNIGDLASILKVEKRRFTAFKE EYEGKETALLVDYKFM DLYP CSASELKALGYKDVSRAKLAAI IPDPVVAPSIVPVLKDEVDRKPE YPKPDTQQMIPFQPRHLAPPGL HPVPGGVFPVPPAAVVLMLKLLP PPICFQGPFVQVDELMEIFRRCK IPNTVEEAVRIITGGAPELAVEG NGPVESNAVLTKAVKRPNEDS
15455	45823	A	15545	12	427	SAEAMSGDGATEQAAEYVPEK VKKAEEKLEENPYDLDAWSIL IREAQV**YRITFPSLWVQSHYL VLPVNNIFIHLTL*MLFIGFQF*N QPIDKARKTYERLVAQFPSSGR FWKLYIEAEVTILFYFFLYQYCS IHL
15456	45824	A	15546	150	469	SAEAMSGDGATEQAAEYVPEK VKKAEEKLEENPYDLDAWSILI REAQNQPIDKARKTYERLVAQF PSSGRFWKLYIEAEVTILFYFIFS YISIAAFTTVVIENKLG T
15457	45825	A	15547	1	834	
15458	45826	A	15548	443	732	SFMRWQKGQLPQLCLHRESHC SPYPQPSFLGMEP/ADIHETTFN SIMKCDVDIHKGLYANAVLSSG TTMYPGIANRMQKEITALAPS MMKIKIIPA

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15452	45820	A	15542	254	883	DLRKDSPWEHRQCDKREPGNS APPAPHSWGFAVFNPRAGDVR QLCKRADTRTPSPRAPFGSAGA CRGCGRAGARSLASPKARTCIS SARRRAGGPLQLGAGSGQAKR PDR*TRREGANA*KTLHL/HSSL APSPGGVLAFQEPPGRPQVAC CAATAAGGIRAGERR/PAAAAA AAPWAQKLRRRLRLQRRGPPGC R**MVSFPRLFSGSTSR
15453	45821	A	15543	1	768	MCDFGKSTSLPASPTSSSANGR DNSTYRLKEQGGFMHSVASRD SCAESARYTDAHYAKSGYGAY TPSSYGANLAASLLEKEKLGFK PVPTSSFLTRPTYGPSSLLDYD RGRPLLRPDITGGGKRAESQTR GTERPLGSGLSGGSGFPYGVNT NCLSYLPINAYDQGVTLTQKLD SQSDLARDFSSLRTSDSYRIDPR NLGRSPMLARTRKELCTLQGL YQTASCPEYLV DYLENYGRKG SASQVPSQAPPSRVP

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15449	45817	A	15539	1	3102	MYSHVITVCRHVKNGDILLNR QPTLHRPSIQAHRRARILPEEKVL RLHYANCKAYNADFDGDEM AHFPQSELGRAEAYVLACTDQ QYLVPKDGQPLAGLIQDHMVS GASMTTRGCFRTREHYMELVY RGLTDKVGVRVLLSPSILKPFPL WTGKQHINRTKDKNHMIISIDA EKAFDKIQQPFMLKTLNKLID GTYLKIIRAIYDKPTASILNGQK LEAFPLKTGTRQGCPLSPLLFNI VLEVLARAIRQEK
15450	45818	A	15540	1	779	IPMKDHDAIKLFIGQIPRNLDK DLKPLFEFGKIYELTVLKDRFT GMHKGCAFLTYCERESALKAQ SALHEQKTLPGMNRPIQVKPAD SESRGEDKKLFVGMNLKQQSE DDVRR\LFEAFGNIEECTILRGP ERQTAKGCAFVKYSSHAEEAAG RPSTRLHGSQTMPGAFVPVWV GQVSADTDKERTMR\RMQQMA GQMGMFNPMAIPFGAYGAYA QALMQQAALMASVAQGGYL NPMAAFAAAQMQQMAALNM NGLAA
15451	45819	A	15541	1	1413	MEYYAAIKKDEFISFVGTWMK LETIILSKLSQMOKTKHRIFSLIV LCDITDILKEFTVAEAGGFALNE IMKEICKSRFSKVS LHWKMW HSTASLGYHRVNVNTPDPLNLC LGHCWLGLRDTGQKQACGGP GVCPGMFRRACGGNAPCKEAP SVTEASSPDGSVLCLGSHVPITP APLSSAQMVCHMVEDRRTVEL ILGATHNLFFSTSPLTWSLRAIP GNCVLFLKDYVTEPVRSQSILHI AGPTFKQTPNLPFLKFPEATKA HGPNVYQNDSTCPEPTAQVSH WSSVSSTLIASVPVGPEDRKLFV GMLNKQQSEDDVRRLLFEAFGN IEECTILRGPDGNSKARPLASSQ GAPSVKYSSHAEEAQAALH GSQTMPLMQQAALMASVAQ GGYLNPMMAAFAAAQMQQMAA LNPNGLAAAPMTPTQANGQP AAEENFANGIHPYPAQSPTAAD PLQQAYAGVQQYAGR

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15441	45809	A	15531	5459	6324	LLANVSQLLADISQLLANFTQL FSHFSQLLTYLSKLFTHLPQLLT HFPKLLTHQPELFSNQSQLHPNI TRYSPSPSYSPSPSPNYTPTSPN YSPTSPSYSPSPSPSY/RDLTKLL PFQPTIHTTVSNLYPKLTQLQPQ FAQLQPNLTQV\PTSPSPSPSP EYTPTSPKYSPTSPKYSPTSPKY SPTSPYSPPTPKYSPTSPY\Q PLQSTPQPLPSTHLLAPLTRPLP PSTRPPAPPTRPPPKAQPTLPLP LVTRPPAPPTVSQARLSARMTV TRRTEGTWGAAAG
15442	45810	A	15532	13	941	SVVLRPLLVAATAATTPVAA AAATNTAKKTATVMVGEMVA GERGVLQMGHDITRFFYSNIQT VINNWLLIEGHTIGIGDSIADSK TYQDIQNTIKKAKQDVIETFEN QVPRILNDARDKTGSSAQKSLS EYNNFKSMVVSGAKGSKINISQ GGGSQGGRGPPISMWLLALC LVGLAGAQRGGGGPGGGAPG\ GPGLGLGSLGEERFPVVNTAYG RVRGVRRELNNEILGPVVQFLG VPYATPPLGARRFQPPEAPASW PGVRNATTLPPACPQNLHGALP AIMLPVWFTDNLEAAATYGGC FRVPKKA
15443	45811	A	15533	207	696	TNLQEKKNQPHQKVGKRYKQT LLKRRHLCSQQAHEKMLIITGH QRNANQNHNEIPSHTS*NGDH* KVRKQQMLERMWRNRNAFTL WVG*TSSTIVEDSMAIPQGSR TRNTI*LSHPITGYIPKGL*IMLL *RHMHTYAYCGSIHNSKDLEPT QRSINDRLD
15444	45812	A	15534	1	307	
15445	45813	A	15535	1	381	LPPPHDRLWCVMFPTLCPSVLI VQFPMSSENMRCLVFCPCNSLL RMMVSSFIHVPTKDMNSGIL*S RPADIELFSINLVNKKIFLKGF GDPLSLQRQLRNIVFSMPCCFPS FLLPWVFSQLSVKPH
15446	45814	A	15536	134	278	DPAFLAPSPV/LMKQAPQATSG LMEPPGPSTPIVQRPRILLVIDD AHTD
15447	45815	B	15537	1	840	
15448	45816	C	15538	1	891	

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15428	45796	A	15518	3	1263	GRTIQTKGKEVENFEKNLEECI TRITNTEKCLKELMELKTKARE VREECRSLRSQCDQLEERSAM EDEMNMKQEGKFREKRIKRN EQSLQEIWDYVKRPNLRLIGVP ESDVENGTKLENTLQDIIQENFP NLARQANVQIQERQRTQRYSS RRATPRHIIVRFTKVEMKEKMG LLVPNWTNHSPLFRAILFDYKG FCRFGTTHQTGFSPAGANQRGP LAATLSGPGGEGQSAVARLTGL IGVPESDVEKETKLETTLQDIIQ ENFPILARQANVQIQEIQRTQQR YSSRRATPRHIIVRFTKVEMKE KMLRAAREKGRVTLKGKPIRL TADLSAETLQARREWGPIFNIL KEKNFQPRISYPAKLSFISEGEIK SFTDKQMLRDFVTTRPALKELL KEALNMERNNRYQPLQNHAK
15429	45797	A	15519	1	1137	
15430	45798	A	15520	1	1578	
15431	45799	A	15521	1	1656	
15432	45800	A	15522	1	1120	
15433	45801	B	15523	1	1541	
15434	45802	B	15524	1	1632	
15435	45803	C	15525	53	352	
15436	45804	A	15526	1	973	MGKKQNRKTGNSKMQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTKGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELQRVSAMDE MNEMKREGKFREKRIKRNEQS LQEIWDYVKRPNLRLIGVPESD GENGTKLENTLQDIIQENFPNL ARQANIQIQLRIPQRYSSRR TPRHIIVRFTKVEMKEKMLRAA REKGRVTLKGKPIRLTVDL SAETLQARREWGPIFNILKEKNFQ PRISYPAKLSFISEGEIKYFTDKQ MLRDFVTTRPALQELLKEALN MERNNRYQPLQNHAKM
15437	45805	A	15527	1	2896	
15438	45806	B	15528	50	658	
15439	45807	A	15529	1065	1260	RSHALALDSAGSSSPESPH* RASIPHTALGQNAGSWAGTAHSHH GPFLWSDPRHPQVPHRTCCP
15440	45808	A	15530	96	219	EFSTKPRLSGP*SSWEMLILEPL APDTTIDLKLLYSRDF

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15414	45782	A	15504	2	991	RSAGVKAGSRPSPVLQQSASSF NMTDAAVSFAKDFLAGGVA AISKTA VAPIERVKLLQLQVQH ASKQIAADKQYKGIIICVVRIP KEQGVLSFWRGNLANVIRYFPT QALNFAFKDKYKQIFLGGVDK RTQFWRYFARNLASGGAAGA TSLCFVYPLDFARTRLAADV GK AGAEREFRGLGDCLVKIYKSDG IKGLYQGFNVSVQGIIYRAAYF GIYDTAKG\MLPDPK\NTHIVIS W\MI AQT VHCCCPG*LPYPFDT RS/VRNE*MQSGRK\GT\DIMY TGTLADCWRKIARDEGGKAFFK GAWSNVLRGMGGAFVVLVLYE *KSKKYT
15415	45783	A	15505	1	613	
15416	45784	A	15506	1	1695	
15417	45785	A	15507	131	723	LLEGKLTNRKDIHTKNPSVRH/ RSSKTKERV SAMED E INEMKRE EKFREKRVKRNEQSLQE IWDYL KRPNLRLIGVPESDGENGTKLE NTLQDIIQENFPNLARQANIQIQ EIQRMPQRYSLRRATPRHII VRF TKVEMKEKMLRAAREKGRVT HKGKPIRLT/ADLSAETLQARRE WGPIFNILKEKNFQPRISYPAKL
15418	45786	A	15508	1	3156	
15419	45787	A	15509	1	879	
15420	45788	A	15510	1	804	
15421	45789	B	15511	1	1230	
15422	45790	A	15512	2	827	
15423	45791	A	15513	1	1011	
15424	45792	A	15514	1	1722	
15425	45793	B	15515	1	780	
15426	45794	A	15516	1	2712	
15427	45795	B	15517	1	855	

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15409	45777	A	15499	1	645	
15410	45778	A	15500	3	677	SPPNPRAPYLFPASLQNPNANWS PHFQYLPILSQPRSVLTAFRQQA QPRISMPQAQTPFRPQMERLDQ NIRRSNQPQHSLKPKLIQSKALT LFNSVKAEEKDEEAAEEKFEVTR VVHIRGLIDGVVEADIVEALQE FGLISYVMVMSKKRQALVEFE DVLEACNAVNYTADNQIHIAG HPAFVNYSTSQKISRPGNSDDR SVNSVLLFTILNPIYSITTDVLYT
15411	45779	A	15501	2	1712	DEQRRRSGAMVKMAAAGGGG GGGRYYGGGSEGGRAKRLKT DNAGDQHGGGGGGGGAGAA GGGGGGGENYDDPHKTPASPVV HIRGLIDGVVEADLVEALQEF PISYVVVMPKKRQSLV*FEDVL GAGNAVNYAADNQIYIAGHPA VFNYSSTSQKISRPGSDSDSR\SV N\SVLLFTILNPIYSITTDVLYT\I CNPCGPVQRIVIFRKNVQAMV EFDSVQSAQRAKASLNGADIYS GCCTLKIEYAKPTRLNVFKNDQ DTWDYTNPINLSGQGDPGSNPN KRQRQPPLLDGHPAEYGGPHG GYHSHYHDEGYGPPPPHYEGR RMGPPVGGHRRGPSRYGPQYG HPPPPPPPEYGPHADSPVLMV YGLDQSKMNGDRVFNVFCLYG NVEKVKFMKSKPGAAMVEMA DGYAVDRAITHLNNNFMFGQK LNVCVSKQPAIMPGQSYGLED GSCSYKDFSESNNRFSTPEQA AKNRIQHPSNVLHFFNAPLEVT EENFFEICDELGVKRPSSVKVFS GKSERSSSGLLEWESKSDALET LGFLNHYQMKNPNGPYPYTLK
15412	45780	A	15502	1	528	NHQIRNDFTISPGVKADSRTSPI PQQPASSFDITEAAVSFAKDSLA GGVAAAISKMAVAPIERVK/RV PKEHGVLSWCGNLASVIRYFP\ TQALNFTFKDKYKQIFLDGVDK RSQFWRYFAGNLASGGATGAT SLCFVYPLDFAHTRVAADVKG AGAERELRGFGDCLVKIYKSDG IK
15413	45781	A	15503	1	1452	

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15407	45775	A	15497	89	2490	PKCCFFCLLSGETAAAQSCLCG KVVLRLRPLRRCRRYSTSGSSGLT TGKIAGAGLLFVGGGIGGTILY AKWDSHFRESVEKTIPYSDKLF EMVLGPAAYNVPLPKKSIQSGP L*ISSVSEVMKESNRPASQ\LQK QK\GDTPASATAPTEAAQIISAA GDTLSVPAPAVQPEESLKTDHP EIGEGKPTPALSEEASSSSIRERP PEEVAARLAQQEKQEQQVKIESL AKSLEDALRQTASVTLQAIAAQ NAAVQAVNAHSNILKAAMDNS EIAGEKKSAQWRTVEGALKER RKAVDEAADALLKAK*LLMDF NKEELEKMKSVIENAKKKEVA GAKPHITAAEGKLHNMIVDLD NVVKKVQAAQSEAKVVSQYH ELVVQARDDFKRELDSTPEVL PGWKGMSVSDLADKLSTDDLN SLIAHAHRRIDQLNRELAEQKA TEKQHITLAL\EKQKL\EEKRAF DSAVAKAFRNIHRKLKYRA*TG QKR*KEVRDAME\NEMRTQLR RQAAAHTDHLRDVLRVQEQL KSEFEQNLSEKLSEQELQFRRLS QEQVDNFTLDINTAYARLRGIE QAVQSHAVAESEEARKAHQLW LSVEALKYSMTSSAETTS\PL GSAV\EA\KANCSDNFTQALT AAIP\PESLTRGVVTVKRPLGAR FYAVQKL\ARRVAMIDETRNSL YQYFLSYLQSLLLFPPQQLKPPP
15408	45776	A	15498	1	1212	MPKKRQALVEFEDVLGACNAV NYAADNQIYIAGHPAFVNYSTS QKISRPGDSDDSRSVNSVLLFTI LNPIYSITTPTRLNVFKNDQDT WDYTNPNSLGGQDGPNSPNKR QRQPPLLDGHPAEYGGPHGGY HSHYHDEGYGPPPPHYEGRRM GPPVGEYGPHADSPVIMVYGL DQSKMNCDRVFNVFCLYGNVE KVKISLKKQSPGGRPMGEWL DGYAVDRAITHLNNNFMFGQK LNV/CVGAQAREGSRGTGERK GGEWGPAEEHSEA\VLTHTEM GCGSVSKQPAIMPGQSYGLEDG SCSYKDFSESNNRFSTPEQAA KNRIQHPSNVLHFFNAPLEVTE ENFFEICDELGVKRPSSVKVFSG KSERSSSGLLEWESKSDALET GFLNHYQMKNPSINLVT

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15406	45774	A	15496	2	1605	WQLPHPPAAP SARQIL RACQLS SVTAVAQSCLYGKQLC/GLTTG NIAGAGLLFFGGGIGGTILYAK WASHFRERVEKTIPYSDKLFEV VLGSAPYNVPLPKKSTQSGPLK ISSVSEVTKEFKQPASQLQKQK GDTPASATAGDTVLPVGVQHE ESLKT DHPAIDEGKPTPALSEEA SSSSIRERPCEEIAACLAQEEKQ EQVKTESLAKSFEDALRQTANV TLQAIAAQNTVVQAVNAHSNIL KAAMDNSEIEGKKKS AKWHTV QGALKEHRKAVDEAANALLKA KEEVQAAQFESKLVSQYHELV GQAQDDFKRQLDSITPEVLPGW KGMSVSDPADKLSTDDLNSLIA RAHRHIDQLNRELA EQKATEK QHITLALEKQ TLEEKVQE QELK YEF EQNLSEKLSEQELQFHLS QEQVHNFTLDINTAYARLRGIE HAVQSHAVAE EEAR KAYQLW LSVEALKYSMTSSAEMPAVPL GSAVEAIKANCSDNEFTKALAT AIPPE SLTHGVYSEETLRVRFYA VQKLARRVAMID

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15398	45766	A	15488	1370	2243	LGKLRLESCGLVAAVRPHSGGL AMPLPNATRPASGRSED/AELK LALEHGHRSESLQGRKHRGVH DNSDIPQAALVGGTTMIIGHVL PDKETSLVDAYEKCRLADPK VCCDYALHVGITWWAPKVKA EMETLVREKGVNSFQMFMTYK DLYMLRDSELYQVLHACKDIG AIARVHAENGELVAEGAKEAL DLGITGPEGIEISRPEELEAEATH RVITIANRTHCPIYLVNVSSISA GDVIAAAKMQKGKVVLAETTTA HATLTGLHYHQQDWSHAAAY VTVPPRLGIPPH
15399	45767	A	15489	307	600	VSRRASSGSPVPLGSLHLQHSA PA/PSAAPKPRSPPARLSRPHLR GESAAPSPSPGPASLAAAAAA RVPAQSPAPSTTPAPRTTLAPR VPHRLAPAP
15400	45768	A	15490	3	222	
15401	45769	B	15491	1	1131	
15402	45770	A	15492	136	201	
15403	45771	A	15493	3	556	ELPRRLVCSKL RADPGR LTPDA CARPGMSRYLLPLSALGTVAG AAVLLKD YVTGGACPSKATIPG KTVIVTGANTGIGKQTALELAR RGGNIILACRDMEKCEAAAK\ D IRGETLNHHVNARHLDLASLKS IREFAAKIIEEEERVDILINNAGV MRCPHWTTEDGFEMQFGVNHL GHFLTTWC
15404	45772	A	15494	11	559	
15405	45773	A	15495	1	312	MAPAADREGYWGPTTSTLDW CEENYSVTWYIAEF SWLMSGF LPTPSSLRDLTASRWVRS LPPSR SPAGRQPGPAEELPKASPCPWG KSLSRPFASF SASSGPS

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15389	45757	A	15479	1	1016	MERRGPGAATARGRARPGGGP SVGLLATGSSLNPSFHGVARIVP GFIRIARPRDGSFAYESVPWQQS ATQPAGSLSVVTTVWGVGNAT QSQVLGNPMGPAGSPSGSSMM PGVAGGSSALTSPQCLGQQAFA EGGANKGYVQQGVYSRGGYP GAPGFTTGYAGGPGGLGLPSH AARPSTDFTQAAAAA VAAAA ATATATAT/GHRGCSPGEAEPG AEP\DGAMGAGQSFSNQLQHG GPRGPSVPAGMNPTGIGGVMG PSGLSPLAMNPTRAAGMTPLY AGQRLPQHGYPGPPQAQPLPRQ GVKRTYSEVYPGQQYLQGA YP VHSGLSQFPTWQETPRHP
15390	45758	C	15480	1	585	
15391	45759	B	15481	1	885	
15392	45760	A	15482	3	440	GPWPRPVAYLSKQLYRVSKGW PPGLRALAEMALLAQEADKLT LRQNPNI/IGPHAVVTLMTTKG HH*FTNARLTYVKIPT*PLKF/G NTLNPTTLLPVSESPVEHNCVD VLDSVYSSRPNLRDHP*TSVDC ERYVDRSSFTNRCKVTR
15393	45761	A	15483	3	368	
15394	45762	C	15484	109	276	
15395	45763	A	15485	1	1710	
15396	45764	A	15486	221	784	QNSLRSMCQKEKKMAAGVLT HTC\GPWPRPVAYLSKQLDRIS KGWPPGLRALAATALLAQEAD KLTL\GKT*I*RPPHAVVTLMT KGHHWLTNARLTKYQSLLCEN PHITTEVCNTLNPTTLLLVSESL VEHNCVEVLDSVYSSRLNLRD HP*TSVDW*LHVDGSSFTNPCK VTLKKMTSAAPVTPRS
15397	45765	B	15487	509	661	

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15385	45753	A	15475	1	1115	MKWLLLLGLValsecIMYKVP LIRKKSLRRTLserGLLKDFLK KHNLNPARKYFPQWEAPTLVD EQPLENYLDMEYFGTIGITPA QDFTVVFDTGSSNLWVPSVYCS SLACTNHNRFNPEDSSTYQSTS ETVSITYGTGSMTGILGYDTVQ SGYHHGNHRLNLKGLCSSKRSS TTPPLYDLGQVASPPSGSVSSC DDQSGSVVIFGGIYSSYYTGGL NWVPVTVEGYWQITVDSITMN GEA\IACAEGCQA\IPEPGTFFVT GPTSPIA\NIQSDIEA\SEELDG\D SVLICSAISSLPDI\VFTINGVQY PVPPSA\YILQSEGSCISGFQGM NLPTSEELWILGDVFHPASTLT VF\DRANNQVG\LAPVA
15386	45754	A	15476	1	765	
15387	45755	A	15477	470	479	PRNPSSFLQVQVQHRFLQLFVP FHFVFFLASLYVMVTLTTWFR* DPCVSGMALNCSFLKIASSSGE YLRPTPSYLNQVVVRVTMT
15388	45756	A	15478	1	896	CLPFGGPKPNPWDKDGCGQGR PQPRHLPGPGTAAQRRQQCPSE KSL/CRWPSTASTCSRLFYIL LHVGAS/CNLLPPAVKDSSGKG VGQDTQVLSGSGAVYRVCAGT ATFHLLQAVLLVHLHSPTSPRA QLHNSFWLLKLLFLLGLCAIAF CIPDEHLFPAWHYIGICGGFAFI LLQLVLITAFASWKNKNCNEAS YLAEVFGPLWIVKVYSYEFQKP SLCFCCPETVEADKGQRGGAA RPADQETPPAPPVQVQHLFLQL FCLPLRLLPWLTLCHGYPYQLV QASAGCGCKPFAPYSL

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15378	45746	A	15468	528	1413	QTERNSTSTSKTPSEGHQHQRPKVDKSTKMGRNQCKKA*NSK SQNACCPPKDHSSLPAREQTMENEFDELTEVGFRRWVITNSS KLKEHVL TQCKEAKNLEKRLE ELLTRITNLEKNINDLMELKNT ARELREAYTSINSRIDQAKERM SEIVDQLNERNDRENGTKLENT LQDITQDNFPYLARQVNIQIET QRMPQRYYSRRVTPRHIIVRFA KVEMKEKMLRAAREKDTSVK QKVNKDIQELNSALHQVDLIAI YRTLHPKSTEYTFFSAPHHTYS KTDHIVHSILCDSG
15379	45747	A	15469	368	679	SSQLNKAPSLFNPVSEEFCLWL LLLQKELLTRITSLEKNTNDLV DLKNTA*ELHEAHTSINS*IDQV EERISECEDHLTEIRHSEKMKTA LLK*DMQTRREKKK
15380	45748	A	15470	865	2055	QTERNSININKKDNIAKTPSKG HQQQRPKVDKSTKMRKNQHK KA*KFPKPGMPSSPPK\DHNCSP ARE\QNWMENEFNEFDEL TGA GFRRWVITNSSSELKEHVVTQCK EAKNLEKRL\QELLTRITSLEKN INDLMELKQDITQENFMKHTQ VSIAQADQGRKERVSEIEDPTL MDIKCEDKIREKK/IKKRNEQSL QEIWGYVKRPNLRLISVPESDG ENGK*ENILQDIIQENF/PFPNL TRQANIQIETQRTLQRYPLRR ATPRHIIIRFTKVEMKEKMLRA AREKGRVTHKGKPIRLTENLSA ETL*ARRE**PILNILKERNFQPR ISYRAKLSFISK/GKREIKSFIDK QTLRDFVTTRPALQELLKEAVN MERKNQYQPLQKHTKLKRPLT
15381	45749	A	15471	1	315	
15382	45750	A	15472	1	2775	
15383	45751	A	15473	1	1017	
15384	45752	B	15474	1	3105	

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15369	45737	A	15459	1	744	
15370	45738	B	15460	337	1515	
15371	45739	A	15461	1	1197	
15372	45740	A	15462	1	714	
15373	45741	A	15463	142	601	HQRTKVYKFTKMRKNQPKKPE NSK/TQNPSSPSKDHNSLPAREE NWMENEFDKLTEVGFRRWVIT NSSELKEHVLTQCKEAKNPKD RLEKLLTRIISLEKNINDLVELK NTA*ELLEAYTNINSQIDQVEEK I/S/SIEDQLNEIKLEDEIREK KKK
15374	45742	A	15464	153	474	QTKSNNVNIKKQDVHTKTPSEG HQHQRPK\DHNSLPAREQNWIE NEFDELTEVGFRRWVITNSSEL KEHVLTQCKEAKNLEKRLQEL LTRITSLEKNINDLMELKNTA
15375	45743	A	15465	1	2172	
15376	45744	A	15466	1	1640	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGRRLRAEDVFPPVI GVA AHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGNPDQGT SMYHGWV PDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPGLDI IPSCALHRIETELMGKFDEGKL PTDPHMLRLAIETVAHDYDVI VIDSAPNLGIGTINVCAADVLI VPTPAELFDYTSALQFFDMLRD LLKNVDLKGFE PDHLTPAGNC YVVRNEDCIGFFSGFY NVISL GVYLVEQQKGWEDTHSKTPSK GHQHQRSKVDKSTKMRKNWS KNAENSKNQNALSPNDRNSSP ARAQNWMENKFDKLTEVGFR RQVITNTSELKEHILTQSKEAKN LDKRLQELLTRITSLEKNINDL MELKNTARELREAF TSFCVNCE AVSLITSLREDSHWLEDSKGHR M/RRHQE*KCEYFHPPHPGLQF YQLPESDSHSDPLWPHGGSFLS
15377	45745	B	15467	50	1603	

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15357	45725	B	15447	707	1826	
15358	45726	A	15448	108	397	
15359	45727	A	15449	1726	2464	SKAVQLEAGLLQLFCCCKMAP DPNITDVFGRTALHYAVYNEDT SMIEKLLSYGANIEECSEDEYPP LFLAVSQRKVKMVEFLKKKA NINAVDYLGRSALIHAVTLGEK DIVILLQHNIDVFSRDVYGKL AEDYASEAKNRVIFELIYER KKHEELSINSNPVSSQKQPALK ATSGKEDSISNIATEIKDGQKSG TVSSQKQPALKDTSKNDVSNS TATEIKDEQKSGTVSSQKQPAL KDTSDKNDVSNTATEIKDEQK SGTSVFSETTGLEGYK
15360	45728	A	15450	2	675	
15361	45729	A	15451	1	467	DHSSSPAREQNWMEFEDEL EVGFRRWVITNSSELKKHVL TQCKEAKNLEKRLGELLTRIT SLEKNINDLMELKNTARELHEA YTSINSWINQAEERLSEIEDQL NEIKREDKITEKMKNSTTVRVA ASMQSKLLQGVAEEGPLRLTR SASF
15362	45730	A	15452	2	632	
15363	45731	B	15453	355	894	
15364	45732	B	15454	99	716	
15365	45733	A	15455	1	1140	
15366	45734	A	15456	1	1476	MEVNREKQLNELEVIGSEEQNL EEGLMIGGVAVRLVPDDIVIP GGVNATNGTEARDALRVKVA MSVTLLSGIIQYLLSALGWSY YTVDGVSQKNPRALGVTADQLH AIFTTMSDEQASFRFGFVAIYLT EPLVRGFTTAAAVHVFTSMK KYLFGVKTTRYSGIFSVVYSTVA VLQNVKNLNVCSLGVGLMVFG LLGGKEFNERFKEKLPAPIPLE FFADHNSSPAREQKWMENEF DEWTEVSFRRWVITNSSELKEH I LTQCKEAKNLEKRLLEELLTRIT SLEKNINDLMELKNTAQEFHEA YTSINS/RNQTEERVSEIEDQLN EI*CKDKIRIEKKRMKRNEQSLQ EIWDCVKRPNRLTGVPESDGE NGTKLENTLQDIIQENFHNLAR QANSQIQEIQRTPQRYSSRRATP RHIIIRFTKVEMKEKMLRAARE KGRVTHKGNPIRLIADLSADTL QARRQWEPFIFNILKENFQTRISH
15367	45735	A	15457	1	1185	
15368	45736	A	15458	1	2367	

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15347	45715	A	15437	2	881	HARCTGIAARAGLLDPRHTGEA LAARSRIDLARRPHWPRGCGTG GGGGGCAGLGGAWLGRNDVA VPARALVTAAPASSSMSPPIPA AARPVSSSPAASPSRCGLRAG PAELRCPRRLRQARAEPPRAG PAPGRRRPTPGICAPLSPRLRA GGTAPSLPGVTRGSRVGRRLRP SLGGAGCRVGRPPRLPPGRR CSTGLPPPAGTGAPAGVCWED GDPGHELAALLRLGGQIRAL AGHRTAGWAQHGLSPREAVRP APAARGTLLRRSNSRRHLQNP ANFGGTLAT
15348	45716	A	15438	3	502	GRRDSCLPGVVAPRACLHPRG QVPRLGSGKMATPGMSWQQ HYYGGSAAKFAPSPATAQLAG HSMDYSQEMHLKMSKKIAQLT KVIYALNTKNDEHESAIQALKD AHEEEIQHILAETREKILQYKS KVTEELDLRRKIQVLESSLEDHI KMKQQALTEFEAYKHR
15349	45717	A	15439	29	230	LQIDCKNKPAILRGPTDPLKEA DCYCRTWERPQILLPKWEGTR KPILVI*QNKAHQHAPQITLLHQ
15350	45718	A	15440	73	335	FFWGGIEEPCFVILSGSVFWFL IWVGASASPVVGDVFGRGGSPP PTSTVGFTVLWGVSWVLKRV CGSSWDC*FVLAINLELKFTM
15351	45719	A	15441	373	513	
15352	45720	A	15442	1585	1649	KNSNIQHSPKITLVHQWFQTK KKFLIYLKKNSGGLVDP*MVHT TRLCADNPQYQPRARKSHS*VK GESTTLREHPMGQKNLNNLQNP
15353	45721	B	15443	1	696	
15354	45722	B	15444	49	525	
15355	45723	A	15445	113	474	SIPYKNKEEEEGKGGEYYIKGT CHGTEGSEQQPSALDLPDRAY PNEKEPEN*LI*QNKAL*HS PKNHTSSP/RNGSKPRKSLNL KKNSGG*LLS*LGRHQRKVKN ARKSKNQYKK
15356	45724	A	15446	47	614	TGCPRCQNSTCIAAVKMEGPL SVFGDRSTGETIRSQNDVTITN DGATILKLLVEVHPAAKVLCEL ADLQDKEVGDTTSVVIIAEL LKNADELVKQKIHPTSVISGYR LACKEAVFYLTENLIVNTDELG RDCLINAAKTSMSDDIINGDF FAN/MVVDVLAIHARHRGQ/P RYPVTLLY*SHGES

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15343	45711	A	15433	26	963	FMIWAGQNRKVQDFVIQLRML TPVVPPPQAAPNAQQPRAAASA PQTRVRAPRWPLGNVVVLGTE DAAGPSRPASEPPASPALPGPAL ELGLPNHPKQT/HRPRLAPRRSH PKDSCTIFKLNSFLKNIKFNNSV GDQVNLDYKLISGTEYDILNFW NFRILAKTGCSKDGHNRNPRSRP TQEEGSGKPKKSLVKERSGAQE DLPVPPEEKLELSGTSMPCCFS KTSYGIPHIYILSYKGTATAG HRWPAAYPAPLNCSPPPETTM PVSDLGSPHWAASRIATPPSMW LCCLLAAALRVLAVSNSAEVY SQS
15344	45712	A	15434	803	1305	RSKPCRSSHNVFSWWAHSRPC CPWSGYSSRLCCLSCCITLGPY QLKNRQQRNGSYKSGNYLCV GNRLLFWVWIIFQGGKGRS/WLP RSDWVTSYKVMVSNDSHTWV TVKNGSGDMIFEGNSEKEIPVL NELPVPVMVARYIRINPQSWFDN GSICMRMEILGCPLPGWEH
15345	45713	A	15435	2	377	ARELLKAVWRPHKVA VMHCR GHQRASTLVGLGNSRADSEAR KAPSAPFRASVTAPLLPQAPDL VPTYSKEENDFLQAKGGQVME EG*IRLPDGRVA AVVLAVHETT HRGQELLEKLLGWYFYISH
15346	45714	A	15436	77	679	KMKTNQMGLKSKVVEMNATIS EIRLNINRKDVEYQQEILQLEAV WKLHKVAVMHCKGHQRASTL VGLGNSRTDSESPKAASAPLRA SVTAPLLPQAPDLVPTYSKEEK DFLQVEGGQVMEEGCIRLLDG RVAVPQLLGAAIVLAVHETTHL RS/ESSLGKLLGQLFSTISHFVSL CQNLTRQCVTCRQHNARQGPA VPPGMQ

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15341	45709	A	15431	129	444	WGGPGRQPDGGRVPGRCGPRR PATWESPAACRPRPQSRHHSFE *GGSRS GSSSHKRPCPSSPAVLRA RDQVVLHTSFEATEGDSSHEDR STPLARRCLCSHRSGEA
15342	45710	A	15432	1	2446	METSLMVQVCGRDCNALLPG NLCSQPTQVLPLEVDGDDGPG GLPLNAAPPSSVPPVPPSEALPP PACPSAPAPWRSIISRLFGTSPA AEA AHPPP GGALDFGALRTSSC LSQSHGHIPGGPGLGLGAVRVP VPSEEDPASLFTEPVPAEAPAT VQSVEDFVANDRLDRSFLEDM TPARDEKKVGAKAAQQDSDTG RASRAPEQQIPHGGHWRGHSRS YERFRPPDMVSAGPGPSDGEAL GGNPIVAGFQDDVDLEDQPRGS PPPPAGPVPSQDITLSSEEEAEV ADPPKGPAPAPQCSEPETKWS SIPASKPQRGTAPMTAAASPWP GGASVHTGLEKCSSTRPPAEIEP GKGEQASSSESDPEGPIAAQML SFVMDDPDFESEASDTQCRAVR RVLPAQRAENAYGSAFQPGAL KPECRPTLKGGPGVPVSKAGKK TEATSPRPTGGASPLAHGATVG AAWGLGMASWPIGSSLAPTRA RTREPLQRRVGSELPGDPCSG SGASCRQVCARGRATSVRLPAL ESLWPLSSDGSAAREGLEGPR LRQAAAPGGPGPPLPPLSRPPSP ARRMRGGA AVAGRGAAAPLE GRVRLGVGFLAETAVRAGAGA LAAADAPPGSRTPRARPLVAAG SGAAGGRCPVPSRRQREAPSPL GGAGVDLQLECLTSEKAGVGA ATGGVLEALARAIQKKEIEEIQ

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15337	45705	A	15427	1	2658	MIINTIITTTTTITITIIITIMSSSPIT ITNIITIIQHSHHHNDQRPSLGK CRGLYIRVRKVPGERATANSRC PINAQGIESCWNGVMALWLGP NSTCSRLPELTDSEDCQPADSP GDEDPKPWWDPPEAPLTGYF HPYGAAFPVRHAGNFKDRREV PHQDTSFCSAGQFWILPSACKT GRVALTLTLIGAYQTLTEADV KGLTAARAASPGAKWRTQFPC PAGTCSSQAGNGQLEDCLPYPP GPSAPVGSLSRSSANGEFIIGRVI KAMNNSWHPECFRCDLCQEV ADIGFVKNAGRHLCPCHNRE KARGLGKYICQKCHAIIDEQPLI FKNDPYHPDHFNCANCGIKLG VFLTDRKDLTADAQELKGELY CLPCHDKMGVPICGACRRPIEG RVVNAMGKQWHVEHFVCAKC EKPFLGHRHYERKGLAYCETH YNQLFGDVCFHNRVIEGDDE GDGFAHRYSPYDSCEVDQSPL GQQLKSIRKGPLAQSQPLPTPV MLHPGCKTQIREAPGSAALSV RRRPRGLVPEESESAAVEAV RHIHLQNFSSRLLETNGQKLG GHFCDVTVCIEASLRAHRCGL AIGSPSFQDKLLLPSEIRVPSV VPVQTVRQLVELLYSGSLVVA QSEAPQVLMAASVLRIDSYRR MHADYRTRSSAPASTSAPALP TPVPPPLAPEQLRHRLRHLLAA
15338	45706	A	15428	708	892	
15339	45707	A	15429	2	713	
15340	45708	A	15430	212	1246	DLPLAVHGVSDSGAQAVASR SGDESSIVCLKEESTVNMTFRCS LPLAVISVVSFTAKCQVKSEFII GRVIKAMNNSWHPECSAVTSA RKFWQILHLRMLVDRKDLTA DAQELKGELYCLPCHDKMGVP ICGACRRPIEGRVVNAMGKQW HVEREQYMDPGILSALIDPKYL LILSHRGLHMKSMKGFYFAKL YYEAKYDLAKKYICTYINVQE RDPKAHRFLGLLYELEENTKA VECYRRSVELNPTQKDLVLKIA ELLCKNDVTDGRAKYWVERA AKLFPGPSAIIYKLKN/DGWVRG QMVPKPDDEGVQVRGRSGRPD AGWRLNRRSSVGGSAWRLRPQ

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15330	45698	A	15420	1	530	SRTTPGKAPKETWGQDAGSGK GGQGPPTRKPPRRTSSHLPSSPA AGDCPILATPESPPLAPETPDE AASVAADSDVQVP\GPAASPKP LGRLRPPRESKVTRRLPG\ARPD AGDGDHLSAVAERP\K\SLHFD TETDGYFSDGEMSDSDVEAED GGVQRGPREAGAKE\VVRMGV LAS
15331	45699	A	15421	1	2989	MLLVMYWAPPPPVHMSQFLT TGPKCLESLDHGRDSQEITAS GLLWLQHAACGLAQWNQKPH PPFLTLLQAEPPFERARSCDIYIR IKMLQTAQQHQVGLAPTERKE ALRGSQSPQKSASGQRPGLDR ELLMLIKISKCLRVPSGPSSVLG TESTGPVPGELVLCQQDAGATQ EGVCYGRELMICRCDSPRLME PWGVKGTPEVFRDITAMKIP DSYQLSPDDYYILADPWRQEW EKGVPAGAEAIPE
15332	45700	A	15422	218	404	
15333	45701	A	15423	1	422	
15334	45702	A	15424	160	470	LTMLFAACVFSGDEIMASEERQ PMEEEWSRSSTISGEDGERWTP DTAGKAAQGIAGDVVWVSPLP PSKVSAASKPPKSIHHPFFKWH NFSNLMKMFYKMYFSKN
15335	45703	A	15425	21	375	TFENTRFWDVQIPVPTGERRNE WALPPPGAGSVPAAGWSRPLTP GRCDSQGRGRSRRRAAPLSRPL PPLRRSPTLPGEPPAHRPLRVH PRHGPRPSHL\ACLNSQAPDASR LRASANQ
15336	45704	A	15426	155	340	

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15325	45693	A	15415	1	1272	MWSGAGPGLAVWPQLVTVLSSL SLRLNCKWGLSFLACLLLGDM MADAAMQHYGVNGYSLHAM NSLSAMYNLHQQAQAQAHA PDYRPSVHALTLAERLADIILEA RYGSQHRKQRRSRFTAFTAQQL EAEKTFQKTHYPDVVMRERL AMCTNLPEARVQVWFKNRRA KFRKKQRSLOKEQLQKQKEAE GSHGEGKAEAPTPDTQLDTEQP PRLPGSDPPAELHLSLSEQSASE SAPEDQPDREEDPRAGAEDPKA EKSPGADSKGLGCKRGSPKADS PGSLTITPVAPGGGLLGPSHSYS SSPL/SPLPSAGAIPPAHGGHQ PGALLVLRSRGSGPCCCSGGCC CALPGRQHGPAGLTA/SASPTTS PCQQPLP/SQGVWGSPLLPA AGLAPASATLNSKTTSIENLRLR AKQHAASLGLDTLPN
15326	45694	A	15416	1	1152	
15327	45695	A	15417	8	82	
15328	45696	A	15418	1	1350	MGSEKDSSEPRSTSLHAAAPDP KCRSGGRRRLTLHSVFSASAR GRRARAKPQAEPPPPAAQPPPA PAPAAAQGPPEALPAEPAAEA EAEAAAAAEPGFDEEAAEG GGPGAEEVECPLCLVRLPPERA PRLLSCPHRSCRDCLRHYLRLEI SESRVPISCPECSERLNPHDIRLL LADPPLMHKYEEMLRRLAS DPDCRWCPAPDCGYAVIAYGC ASCPKLTCEREGCQTEFCYHCK QIWHPNQTCDMARQQAQTLR VRTKHTSGLSYGQESGPADDIK PCPRCSAYIIKMNDGSCNHMTC AVCGCEFCWLCMKEISDLHYL SPSGCTFWGKKPWSRKKKILW QLGTLIGAPVGISLIAGIAIPAM VIGIPVYVGRNIHSRYDGKENS KHKRNLAITGGVTLSVIASPVIA AVSVGIGVPIMLAYVYGVVPI SLCRGGGCGS
15329	45697	A	15419	2	540	

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15321	45689	A	15411	399	1089	LLTPRTDLQEMPLDNAEIEWYT DGSYLRGEVFQWYDHLALIFVP QTGIEDVIWHIEALPNYIQKVCE RRNPYNQILSLQCAQHEIFLVS WKL VCKQLEGDDDM LVGTTA SNLLESEQSTS NLNEKINHLEY EDQYKDNNFGEGNDGGILEDK LISN/NMGGPDSPDSVNPVE/P/M PTMTDQTTLVPNEEEAFAL EPI DITVKETNAKRKRKLIVDSVKN LDSKTIRAQLNDY
15322	45690	A	15412	3	809	FKDDDM LVSTT SNLLESEQS TSNLNEKINHLEYEDQYKVDNF GEGNDGGILDDKLISNDGGIF DDPPALSEAGVMLPEQPAHDD MDEDDNVSMGGPDSPDSVDPV EPMPTMTDQTTLVPNEEEAFAL EPIDITVKETKAKRKRKLIVDSV KELDSKTIRAHLSDYSDIGTTLD LAPPTKKLMMWKETGGVQKLF SLPAQPLWNNRLLKLFT RCLTP LVPQDLIKRRKGGEADNLDEFL KEFEHPEVPREDQQQ*HQQRD VIDEPII
15323	45691	A	15413	1	595	MVNRSHFRGVGEPCHQQNSHG HLNSITETSNSPTLRAAPLQPTR DPSDMAVFEIDELPEGAVKPPA NKYPIFFFGTHETAFLGPKDLFP YKEYKDKFGK\SNKRKGFNEGL WEIENNPGVKFTGYQAIQQQS SSETEGEGGNTADASSEEEDR VEEDGKGKRKNEKAGSKRKKS YTSKVTKLLIVINVICISIKHF
15324	45692	A	15414	41	785	GKGWAGGASGPANHGPAAGG RSPGMLRGDQGLPGRGAAGM ARPRSRE\YKAGDLVFAKMKG YPHWPARIDELPEASVKPPTNK\ YPIFFFWHPMKPAFLGPQDLFP Y*EYRGKFGK\SNNRKGFNEGL WEIENNPGS/IRFTGYQAIQQQ SSFRTEGEGGNTADASSEEEDR RVERDGGKGKRKNEKAGSKRK KSYTSKKSSKQ\RKSPGDED\ND KDCKEEENKSSSEGGDAG\NDT RNTTSDLQKTSEGT

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15311	45679	A	15401	1	406	MEEGWIRLPDGRVAAPQLLGA AVVLAVQETTHRGQESLEKLL GRYFYISPLSALAKTVRQRDFA DFGTTIKQDFRLLGQTSVDRLL QLSQGQAVKGNQLLPVSLTSQ CQVYKCVWNWWVLGLTDFKN EATDPPGVKLQTFVSVTTHKG SVDPNSEKQQDLLQRAKEQSFH SVEGDPSRDFADFGTTIKQDFR LLGQTSVDRLLQLSQGQAVKG NQLLPVSLVKKRTTLAPNTQTA SPRALADSLMQLARQVSR*RAI SCCPSH*LPSAKCISVSGIGGFL VSLTSRMKPRTLLE
15312	45680	B	15402	1	930	
15313	45681	A	15403	391	617	LQLQPTG/CNFLYFYVGYMKIL GFCFHHIVEERGGCLWYPCFYC NLSLLGG*RSCSHTRIVPSLLMP KLGPGGQVC
15314	45682	A	15404	1	1860	
15315	45683	A	15405	1	531	
15316	45684	A	15406	2302	2691	
15317	45685	A	15407	520	2883	
15318	45686	A	15408	3690	4727	ENCHWGCHEPCDIGSSIIISPLA YWEQYHRVTYISRDEGSIIVFP ALVTMLRNLFILAGSSDPHFHT PMYFFLSNLSWADIGFTSATVP KMIVDMQSHSRVISYAGCLTQ MSFFVLFIACIEDMLLTLMAYDR FVAICRPLHYPVIVNPHLCVFFV LVSFFLSLLDSQLHSWIVLQFTF FKNVEISNFVCDPSQLNLACS DSVINSIFIYLDSIMFGFLPISGIL LSYANNVPSILRISSDRKSKAF STCGSHLAVVCLFYGTGIGVYL TSAIVSPPPRNGVMASVMYAV VTPMLNLFYISLRNRDIQSALRR LLSRTVESHDLLSQDLLHPFSC VGEKGQPH
15319	45687	B	15409	1	3195	
15320	45688	B	15410	1	1819	

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15304	45672	A	15394	1	1515	MGQVFRVVTGVGEQPGHPDQF PYIDSWLSIIQNHPKWLQACFET YCKTLMAQIKPGTIERDCKASV KEKDSQEKQKKPVLQAPPEELE SPALYAPIYPSLARLRQEAAPA APRGSDSEESTPQATPCREEPEP LPEKETSSSYRSNAVHFLIHNPT WADCKQLLQSLFNTEEHRVI QAAFQWLENNAPAGTGYIRQY AQQALPIEADTGWDPNQAQGL QSLQWYREALNGIKAGGKKA TNIGKVSEVCQKPDESPSEFYER LCEAYQLYTPFDPEAAGNQCM VNVAFVSQAQGDIKRKLQKLE AKAVLRGKFIALNTYIKKAERA QTDILRSHLKKELKKQEQTSKA SRRKDVTKIRAELEIETTTTKI QKINETKSWFEKINTINRPLAR LTKKSREKLQITSLRKEMGDTT TDTEIQKIIQGYEHLIAHKLE NLEEMNKFLEKYNAPSLNQEEL HTLNRPIRNSIEVVIKKLPTKK/ SPGQDGFRAESYQIFKEALV
15305	45673	B	15395	1	1077	
15306	45674	A	15396	69	290	YYFDSPHPLHLSGTLRPGGSRQ FPCDPQFLCRLHLTLASL*SLPG DLLRGLLHKLVCRLVERLDLASL YAVGR
15307	45675	A	15397	62	201	
15308	45676	A	15398	3	429	LPSSVPRQPKMQARCLSRISRA VEIYESDLEEGQGLHEFSQFVL DRPPPTQSRYAQELVHTCYLHT LASL*SLPGDLQRGLLHKLVCRL AERLDLASHHAAVGRSEFFW TPYTHSPPGAGVGHPFPWHTRL PWGVPAEGHQ
15309	45677	A	15399	303	612	PSSSIPVYHCSLRGICIPVLGLKR AANVGVSLEASPLLSTPGGLGI CLSCGGTRTVGSRVGSIFPW*G EGTTGITGSISCKGSSDVGSNRT SGVDFPRRVE
15310	45678	A	15400	1	273	

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15297	45665	A	15387	207	605	FQASAERFGTEDD/GSLRTRPPV MQSHQWPWRRPRPLVSRGRPQ TTPERHDSGGSLPLTPRMESH EDEDLA/EGCRWP/EAGTVGVP GPRAQGAAQR/QAVLARKKHR RRPSKRKRHWRYLELSWAEEK QQRDERQS
15298	45666	A	15388	193	407	ACPKTSKNLRQRRLLWNLAKHE F/SVDMTCGGCAEAVSRVLISLE VRVKYDIDLPNK/KVCIESEHS MDTLLATL
15299	45667	B	15389	321	625	
15300	45668	A	15390	275	690	SLWPPVIRG/SPKGNRPAILTYH DVGLNMANKKSGDHPEREGTP RSFREVVSAFGPGSSKLQIPKGS APRCGVPGRGARRELQSFRAGP RTQGSPVGPQCQSRRLRSAQEE SAKARHGGLRAHRSFSWDIRM SSKERKFS
15301	45669	A	15391	2	137	PGRYRPN*LLLSASPAGNEF QSTFLTPTILPSLRFPVLYTPNS
15302	45670	A	15392	1	648	MSLRKLTIMVEGKGGPNIPHAC GCRQRSSIKVSLPAVTSKSESP KEPEQLRKLFIGGLSFETTESL RSHFEQRRTLTDCAVMRDPNT KCSKGFGFVTYATMEEKYHTV NGHSCEARKALSKQEVASASS QR/GRSGSGNFGGGHGGGFGG NDNFGHGENFRGHSSFGGSHG GSGYGGSGDDYSGFGNDGSNF GGGGSYNDFGNYSNQSSNFGP
15303	45671	A	15393	1	3629	MTGICYTEDERSYKKNQPTA ASKKQKETQKFCLRVDGQQKV KLSVLQEKSAQLTVQLKSQKFL GHPTAGRGRSELCLDLPDPED PVALETRSVGTWVRERDLGMP DGEAALAAKVAVLETQLKKAL QELQAAQARQADPQPQAWPPP DSPVRVDTVRVVEGPREVEVV ASTAAGAPAQRAQSLEPYGTG LRALAMPGRPESPPVFRSQEVV ETMCPVPAAATSNVHMKKISI TERSCDGAEMKWEDQNIGD

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15291	45659	A	15381	352	822	DPRRVQAFPAKMKFNPFVTSR SKNRKRHFNAP\SHIRRKIMSSP LSKELRQKYNVRSMPIRKDDEV QVVRGHHYKGQIQGVVQVYR KKYVIYIERVQREKANGTTVHV G\IHPSRVVITRLKLDK\DRKRIS DRKAKSRQVGKEKGKYKEETI EKMQE
15292	45660	B	15382	80	432	
15293	45661	A	15383	11	888	VKCRKAEGRRRESRLQTFEESQA VEAAMANVPWAEVCEKFQAA LALSRLVELHKNPEKEPYKSKYS ARANMEEVKALLGPAPEDED ERPEAEDGPGAG\DHAGLPAE VVEPEGPVAQANRLRLA\NEF HLGVNHIDTEELSAGEEHLVKC LRLRLRYRLSHDCISLCIQAQT WRCIGVRDPPTSSCAFLSTSPTP VHSVKKIQTPGRLRPSNSTLVD DMESSFQTCFASPLSQDYVNGS NQEEIGTGVDRCIHKFLDIARQ NISFLQKRLQLSVQKPEQVINED VDVSELRNE
15294	45662	A	15384	1864	2705	WPGKVLHRGLHPWHRDPHGS GGGAGQELRRQGGCLEQLLYD AAHAQRLPPLDSVLPRAALPQD CQRASACEGDPTLLRPSHSPGH PRGAEER/VPSTACLQRSWEGR/ WNRALQQVGGKSPWRGEYK EPRHPPPNQANYHQTL/ACPAE R/CFRQGPQGPQQLRRQQAEP SSSLLSHQSPQSQTSLLP*L*AR RSLGCGNPYLCPPWSQPLPETP AHQSGKQPSRSRNCSSWK*NYS STACPSHFLWRSRKSFRASAST ASPCRMTVRRTHQRPLKARGTP
15295	45663	A	15385	1113	1378	RPHAESFVSGGIPDPGPGPGST GPGPL/ERQPCSLTSWPREPSSS SMKMLTQGPSLTAPYKGITLGE VNPAHAISSARNTSSRTSV
15296	45664	A	15386	285	722	TPAHPGVPPGQSGRHRHW/QSA ARSQLQPSAW*PKTGSFATTW RCQTRASTCSAHWPLMAASPG AGGSSMASWR/DRP*PCPPPPAP HLPEAAFLLR/CHDACP*NTGSA VPRGSCQPPAQWQDQGLAATR WGQAERLPRIYNWALAPP

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15279	45647	A	15369	2	621	RFIKMLSRHHQHVVHVLPLLRA PLPVAMEEEIPALFIDNGSGM/C KSSFA/GDNALRAIFPSIIGHPRH QGVMVGMGQKDSYVGDQAQS KCGILTLKYPIKHGIVTNWDDM EKIWHHVIFYNELCVALEEQVV LLTEAPLNPRANREKMTQIMFK TFNTQAMYVAIQAVLTLHSSGC TTGIVMDSGDGVTHTVPIYERH TLPHTILHLDL
15280	45648	B	15370	1	966	
15281	45649	A	15371	2	228	
15282	45650	B	15372	1	816	
15283	45651	A	15373	256	384	RKLLNEAPC*PMR*HSLLNRLA TSCNSWTVPVVPKFSKLRRGL
15284	45652	A	15374	145	375	KIAGKNRLNRNQCKERKVQVL WISEKKKQREAVEDSPSLDCCH KFPPGS*ERLHG*KRGQWF*PP HTVEKQMRSCLL
15285	45653	A	15375	319	482	
15286	45654	A	15376	4776	5910	VCSTAGDVNGVCLLYDLLHIA VASGSAKGEFFARKPLLAEGV IYDCLQEFKEKKLVPAATPHAQV LSYEALLSAHDTIAQKDFEPLLP PLPDNIPESSEAMRIVCLVKNQ QPLGATIKRHEMTGDILVARIH GGLAERSGLLYAGDKLVEVNG VSVEGLDPEQVIHILAPRPCLS MSLADLPPLPREVLVLAGKLPV PSSSFLLQPREDCQGPQPSLIT WFAPLETEPGVDRAMSRGTIMF KVVPVSDPPVNSQQMVYVRA MTEYWPQEDPDIPCMDAGLPF QKGDILQIVDQNDALWWQARK ISDPATCAGLVPSNHLLK/RIWT EPGICIFTKRLRCSGKQREFWW SQPYQPHTCLKSTLCEYCNCPT
15287	45655	A	15377	2	405	WSLVTRRALARVGLPG/SPPRL LLLPLLLGWGLRVAAAASASSS GAAEDSSAMEELATEKEAEES HRQDSVSLTLFILLTLTILTIWL FKHRRVRFLHETGLAMIYGLEK ITIGVLDITGWPYCTIQPYNGFL
15288	45656	A	15378	1	3804	
15289	45657	A	15379	349	622	RPDVANLAFLARKEGTRKGFSL KKTAEASRWHEKWFALYQNV LFYFEGEQSCRPGMYLLEGCSS GGTSPRSFRSSSRDSPISIPLHPT AK
15290	45658	A	15380	314	483	

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15276	45644	A	15366	3	841	STPKMPKGKKAKGKKVAPAPA VVKKQEAKKVVNPLFEKRPKN FGIGQDIQPKRDLTRFVKWPRY IRLQRQRAILYKRLKVPPAINQF TQAL\DRQTATQLLKLAKHYRP ETKQEKQRL\LARA\KKA WPKGTFTKRPVLRAGVNTVTT LVENKKAQLVVIAHDVDPIELV VFLPAL\CRKMGVPYCIK GKAS LGRIVHRKTCTTVAFTQVNSD KG\ALAK\LVEAIRTNYNDRYD EIRRHWWGGNVLG\PKSV\ARIAK LEK\AKAKELATKLGLNVHC
15277	45645	A	15367	2	1006	WINLKGNLLRKRSLSNFWPCK LRSRKRHTTRNLRMNLWLSSH PPQQSNTKPWCCQLSCSTSLT LLGTSLPLLSYLIHLIPPGRQYP VIHRTSTLLLQHISVGKEKFHKS QHWGFCNNVMMMLQLQLSPLK GLSLVDKVNRPALSGTRVLAS KTAWRIFQEP/SEPKTAAAPG VEDEPLL RGNPCR FVIFPIEYHD IWQMYEKAEASFWTTEEVDLS KDIRHWESLKPEERYFISHVLVF FAASDGIINENLVERFSQIVQITE ARCFYGFQIAMENIHSEMYSLLI DTYIKDPKEREFLFNAI/ETMPC VKKKADWALRWIGDKEATYG
15278	45646	A	15368	3	1368	QAQPMGRVGGMAQPMGRAGA PKPMGRAGSARRGRFKGCWSE GSPVHPVPAVLSWLLALLRCAS TMLSLRVPLAPITDPQQLSPL KGLSLVDKENTPPALSGT\RVL ASKTARRIFQEPTPEPKTAAAP GVEDEPLLRENPRRFVIFPIEYH DIWQMYKKAASFWTAEED LSKDIQHWESLKPEERYFISHVL AFFAASDGIVNENLVERFSQEV QITEARCFYGFQIAMENIHSEM YSLIDITYIKDPKEREFLFNAI/E TMPCVKKKADWALRWIGDKE ATYGERVVAFAAVEGIFSGSF ASIFWLKKRGLMPGLTFSNELIS RDEGLHCDFACLMFKHLVHKP SEERVREIINAVRIEQEFLTEAL PVKLIGMNCTLMKQYIEFVADR LMLELGFSKVFRVENPFDPMEN ISLEGKTNFFEKRVGEYQRMGV MSSPTENSFTLDADF

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15270	45638	A	15360	40	1030	RGDPRVRRRTQSLSPVLSLSPDS MSFTTRSTFSTNYRTLGSVQAP SYGARPVSSAASVYAGAGGSG SRISVSRSTSFRGGMGSCGLAT GIAGGLAGMGGIQNEKETMQS LNDRLASYLDRVRSLETENRRL VESKIREHLEKKGPQVRDWSHY FKIIEDLRAQIFANTVDNARIVL QIDNARLAADDFRVKYETELA MRQSIVEN\DIHGLRNVI\DDTN YHTDLQLETEIEALKEELLFMK KNHEEEVKGLQAQIASS\GLTV E\ADAPKISQDLAKIMA\DIRAQ Y\DELAR\KNREE\LDKYWSQOI EESTTVVTTQSAEVGAAETTLT
15271	45639	A	15361	1	438	LHSDDSLQMLRCSPVATAASY TSGPGAPISSSSFVRVGSSSFQGG LGGGFGGASGIGGITAVMVNQS LLRPLNLEVDPNIQARF/VHTQE KEQIKTF/NNKFASFIDKVRFL QQNRMLEAKWSLLQQQKMAQ SNMDNMFQSYINNL
15272	45640	A	15362	176	1455	EIFPLVIQKSYKVSTSGPRAFSS R\SYTSGPGAPISSSSFVRVGSSS FQGGGLGGGFGGASGIGGITAVM /VQVLHTQEKEQIKTF/NNKFAS FIDKVRFLQQNRMLEAKWSL LQQQKMAQSNMDNMFQSYIN NLRWQLETLGQEKLEAELG NMQELVEDFKKKYHDEINKHT EMENEFVLEIKDVDEAYKNKV ELESLEGLTDEINFLRQLHEEE IWELQSLISDTSVVLSDSSHSLD MDNIITEVKAQYKEIANCSWAK ADSMYQIKYEDLQMLARKHGD NLRCTKTDISEMNQNVSWLQA EIKGLKGQRASLEATITDAEKR RELAIKDANTKLELEAALQW AKQDMAQQLRVYQELMNVKL ALDIKTATYKKLLEGEESWQES RMQNMSIYSKTTSGYAGGLSS AYGGLTSPPLSYGLSS
15273	45641	B	15363	70	915	
15274	45642	C	15364	62	217	
15275	45643	B	15365	1	612	

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15259	45627	A	15349	3	354	EAFGGERVSSTMSGLSGPPARR GPFPLALLLLFLLGPRLVLAISF HLPINSRKCLREEIQGPASDW RVRDLRPVWGRWRPAQ/RTSRS QILLAIFSTPKRMQPRGNLPLTT EDYDMF
15260	45628	A	15350	283	393	YVYRRYGRFE*NDPSSALMST* GKRCQDCLDQRENKK
15261	45629	A	15351	1	351	
15262	45630	A	15352	1	867	
15263	45631	B	15353	1	1323	
15264	45632	A	15354	1	3669	
15265	45633	A	15355	362	1039	LESYLQLPSAEGKTVSVFGETC ATPVGP/AAGPHTQ/LAQNIVTS WLTGGRFIELKTVQILDRLELE KPCIDAEDFCNTEWSTFTLL KAWDEYLKAWFALHLEAMF QPSDSGKSFIFNMSVGYNLEGQ PLNPKNYP SQGVPRVLKSHRQD YLVGNKLSWADIHLVELFYYV EELDSSLISSFLLKPHTHVDNT KKGSHPHMCA YTDYVNNPND RMPQREITFVS
15266	45634	A	15356	74	208	QRLTKLRETSRRLLSWQRSPSS TSMHGAEWSPPRWLLAAAGV EFEEKFIKSAEDLDKVRNDGYL MFQQVPRLRLMG*SWSRV
15267	45635	A	15357	308	735	NQRCTWAYSMTMEIFLISCVKT LSVRYAVQQLKTGVFCSLETQP SKMAPAKKGSKKKKGHS/AIIE VVTQENTINI QKHIHEVGFKKC APRALKEIQKFAMKEMGTPVV LIDTRLNKAVWAKRIRNVTNRI HLCLSRKCNEDE
15268	45636	A	15358	3	323	LSSLASMSFTTCSAFTNYWSPG SVQVPSYGTQPVSHAASVYAG LGGSGSRISVSHSPMAGGLAG MGGIQNEKETMQSLRDLASY LDRVRGLETENWKLESKIQEH
15269	45637	B	15359	1	991	

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15254	45622	A	15344	1	4320	
15255	45623	A	15345	1	966	MNVNLA EESKGKETVGDEIKG GGIQMVMLASQPLTSYCAARFI TGHGQKLKSELKKTQLQVIMLNI QKVRIPTRDGYNEKDILSTGKN VEKLELSNIAGYPSNIEKKEYQE QSVLSCC SERKDANPKSVVCSF FMQE QCTKGEKRFLIPGTLSD RHLRYFGILPTVSNA AAVVKEVP TVSNA AAVVTEAPTGSNA AAVT EAPTGSNA ARVMEVPTGSNA A VVTEVPTGSNA AAVVTEAPTGSN AAVVKEAPTGSNA ARVMEVPT GSNA AAVVKEAPTGSNA ARVME VPTGSNA AAVVKEVPTGSNA AV VKEVPT/GSNA AAVVKEAPTGSN AARVMEVPTGSNA AAVVKEAPT GSNA ARVMEVPTGSNA AAVVKE VPTGSNA AAVVKEVPTGVTLRW SRKRPRE
15256	45624	A	15346	1	702	
15257	45625	B	15347	238	546	
15258	45626	A	15348	632	2361	FQSR TFLKNWNPGEQS QKII/CF QLGERAYQTDVLVKVPRQSSV FSENQRMN NPERWFESTGCGK TYNQNR AFNQHQRFHSGEKTY EHNECGKAFSWPSILSKHQRIH TGKKLYTCEDCGKSFSVHSYFI QHCKIHTREKPYECIKCGKAFS THSSYVQHLKIHTGEKHHECNQ CGKAFSHSSNLIHHQRIHSGEKP YKCKECCGKAFNRQSNLIQHQR HSGEKP YDCKECCGKAFSTQLFL IQHQRIHTGEKPYECNECAKSFS LNRTLTVHQRIHTGEKPYRCNE CGKSFSQCSQVIQHKRIHTGEK PYICNECGKSFGARLSLIQHQR HTGEKPYGCREKPYECSECGK AFSQSFNLIHHQRT HNGEKSYE CNECDKAFSLSSLVQHQRIHN GDKPYECHKCGKAFSQGSHLIQ HQRSHIGEKPYECNECGKTFGQ ISTLIKHERTHNGEKPYECSDCG KAFSQSAHLIHHQRIHTGENPY ECSECGKAFNVCSLIQHHRHT GEKPYECSDCGKAFSQHSQFIQ HQRIHTGEKPYMCNECEKSFSA CLSLIQHKRIHTGEKPYVCAKC

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15248	45616	A	15338	1	2800	SISGPGQEA VPLRPKAEPPEGSG MVWDRQTKMEYEWKPDEQGL QQILQLLKESQSPDTTIQRTVQQ KLEQLNQYPDFNNYLIFVLTKL KSEDEPTRSLSGLILKNNVKAH FQNFPGVTD FIKSECLNNIGDS SPLIRATVGILITTIASKGELQN WPDLLPKLCSLLDSEDYNTCEG AFGALQKICEDSAEILDSDVLD RPLNIMIPKFLQFFKHSSPKIRSH AVACVNQFIISRTQALMLHIDSF TENLFALA
15249	45617	A	15339	8	450	TWSWSPQAPSWARPSSQARAV SLLVARGQLCQGSRRRSGVGSR VDAGAARTALRTLGT RPRLRRP CGLGSHEKAAASGQDQGRGS RGRGSLGGRELGANEPYQ/WR AHTLTVLFILTCTLG YVTLL EET PQDTAYNTKSEIAVVHLS
15250	45618	A	15340	246	559	MPVAVMAES/AFSFKLLDQCE NQELEAPGGIATPPVYGQLLAL YLLHN/GQRIWQRDFPGIYTTIN AHQWSETVQPIMEALRDATRR RAFALVSQAYTSIIADDF A
15251	45619	A	15341	129	915	RSGTQGRSAATAALNVIAGATP EGQSWGLAVRTVQRRGRPAK MPVAVMAESA\SF KLLDQC ENQELEAPGGIATPKVYGQLL ALYLFHNDMNNARYL*KRIPPA IKSANSELGGIWSVGQRIWQR DFPWG/IYTTINGHQWSETVQP IMEALRDATRETAPLPWVSQA YTS\IAR*FCQPLLGLP\EEAV KGILAEQGWQA\ DSTTRNGSCP GKPVCRGPWDVFPFNKFISLYS EPAPV\PIPI NEQQLARLTDYV AFL EN
15252	45620	A	15342	1	529	MATLTISRAQTEDEADYYCHRI KLVKEGLDERTHKAYLSSSGK GCEFHMVKPGSPLGPDILGSWA QSALIQPPSVSGSPGQSVTISCT GTSSDVGSYDYVSWYQQHPGT VPKPMIYNVNTQPSRVPDRFSG SKSG\NTASMTISGLQAEDEAD YYCCSYAGSYPPVFGGGTKLT
15253	45621	A	15343	399	737	WISGGNSCATT/LSDAGLSTTSN SIGSATGARQAESASSQSGGGA LGRHCGASGKCAESLRREPVG S ATNQWAPGWVVG RPASDSSHV VIGLGRSAWSPA EVTPSLIPGRG RTK

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15244	45612	A	15334	1	1754	MRNEISDLTEELHQKEITIAVT KKAALLEKQLKMELEIKEKML AKQKPWACLVNAMPAIQVVFN LGRFRKCQDPHKAQEWVYPGY SGSDCEVFPEIMTSKNREEAMP EWKLWKKVVLSGATDAPSWD GPTFTDLNVFAGNMGLSDCTLS LGKIWKIPGHFLHTSGPVSFHT KGLLNTPTKERWVGFGSEGR GVPEPGGCFGVLA VPRRTPPSA AAMTGGERLGRA WAGDRAAA SRSAPVPGTFGMMGWRPVAFG KNAKAYRGFGGIVTSLTPSCDK VTLLFVRILPGSGQSRDQSSPEK LTDTKSTSNKAYGFPECLRRPE STHIFYDHLGSEQPRGTKGT PLKWVSQKTLERETRQCQALVI WTD CDREGENIGFEIHHVCKAV KPNLQVLRARFSEITPHAVRTA CENLTEPDQRVSDA VDVQRQEL DLRIGAAFTRFQTLRLQRIFPEV LAEQLISYGSCQFPTLGFVVERF KAIQAFVPEIFHRIKVTHDHKD GIVEFNWKR/LSTL*PHGLPSSL SVVCGVRSLSRCSVGFCWRSTP DPVCLCITSGGCRTASIAEQQKL LPDPSYRSFIPEGQPPI
15245	45613	A	15335	3	125	
15246	45614	A	15336	764	1005	
15247	45615	A	15337	1	3533	MELVNCVLMSTLGNTCCPMAI AMFRSSSSLPRPGHSLTGSPLRV NLIHIKFPLNDFHQNVVKIKNK DPPLGAAIGKESCPADNELHSL ERRPLSPKL VQALGVAGLSRPG PPHTGCAIWLLITDHKLLSEIL YDLLHQGLDILADPPDEGGIPR GKNLVELLQLPGLEEDKAFQKE IGLKILVFKAYSTLSSDGPPLFS ALRSLQGVQSSKVGESREEKSQ TEEDPGNPWVPQSLGASVSSS GKWGCLRTKP

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15235	45603	A	15325	3	343	
15236	45604	A	15326	1164	1648	PLMTSAPWPSCCCWRSLSGRP AGRQRQLPTSITTANQPAPSR KKSTSRKKQRNLPAVSPAMVAI VRRSCDLYRWSVLHYASQERR VRDAAKPESD\RKRTTTKTRR/H WRYIKELESRQPGVADMRQQP TQLVEVPWNEQTPEQRQQTLQ RQHGRETRCSV
15237	45605	A	15327	28	417	
15238	45606	A	15328	2	440	
15239	45607	B	15329	1	441	
15240	45608	A	15330	22	584	IRGRVDPPSAVEPPPKMQIFVKT LTG\KTITLEVEPLGYG*KNVK AQASRDK\EG\PPDQQR\IFAG KQ\LEDGRTLSD\YNIQK\ESTL/ HIFVLRRLRGGAKKRKKKSYTT PKK\IKHKRKKKG*SLAVLKYYK \VDE\NGKIS\RLRRECPS\DECGC WGVYGVQTFDRHYCG\KCCLT LLFQQTRMTSNCMS
15241	45609	A	15331	3	954	LDARRHWEGTPGFHTSPDAW ADAWGKMAGEKVEKPDTKK KPEAKK\VDAGGKVKKGNLKA KKPKKGKPHCSRNPVLLRGIG RYSRSAMYSRKAMYK\RKYSA AKSKVEKKKKEKVLATVTKPV GGDKNGGTRVVKLKMPRY PTEDVPRKLLSHGKK\PFSQHV RKLRSITPGTILITGRHRGKR VVFLKQLASGLLVTGPLVLNR \VPLRRTHQKFVIATFTKIDIS\N VKIPKHLTDAYFKKKLRKPRH QEGEIFDTEKEKYEITEQRKIDQ KAVDSQILPKIKAIPQLQGNLRS VFALTNGIYPHQLVF
15242	45610	A	15332	670	1008	WCILGVTPSLMSRTALFLSRHT FFA/RSHSAASKL/EKKKKEKVL ATVTKPVGGDKNGGTRVVKL KMPRYPTEDVPRKLLSHGKK PFSQHVRLRPSITPGTILITG RHRG
15243	45611	A	15333	1	708	

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15230	45598	A	15320	240	924	NGEQKCILCHIVYSSKRRH\SHE CRRCGPTEVLSA YAKHISGQL HKDNVDAQEREDDGKGEEEE DYFDKELIQLIKQRKEQSRQEPS SSSQEVNSDDSSSATFSVSFVYV WLKTILLTWPKEVKRLDTPGL ELWLVPNMAELSEPEGPVDWK ERCVALESQLMKFRVQASKIRE LLAEKLHHNERLEYRDQRKDS ASFQRKKQFTYKASGIEMASDL SKAPLEIRG
15231	45599	A	15321	3	755	LRLPRRSTRTRRGIWVRTGAAM GKVNVAKLRYMSRDDFRVLTA VEMGMKNHEIVPGSLIASIASL KHGGCNKVLRELVKHKLIawe RTKTVQGYRLTNAGYDYLALK TLSSRQVVECvGvNQMGVGKvE SYIYIVANEegQQFALKLHRLR RTSFRNLKNKRDYHIHRHNVS WLYLSRLSGMKFCYMKQFCD EQGSQRLRIHMMGGMWAVPIC QPRDLFVWFVLRAEACAGCGA TSQQRGALGVTSTCYRD
15232	45600	A	15322	1	1028	MNKTITTQEEVLPQADVQRE EELNSLKQKLAAALLAEQEPQP ERLVSELQL\PRKAAVFQDEILR SSRQLVLPGLGVHRHVLVCC GGLRCPLAGGLAAASVGRGLGL VDCDVVEMSNLAYQVLHGEAL AAQAKAASAAASLRGLNLAPP PAETVTNCADGGMLRVLTGVL GCLQPLKVLKIAASLGPSYSGS LLFDALRGHFCCIRLRSCRLDC AACGKWPTVTHLLDYEAFCGS SATDKCRSLQLLGPEDRVSVTD YKRLLDGAPHLLLDIRPKMEL PRKAAVFHDEILRSSRQLVLPGL GVLRHLLVVGCGGLRCPLAQY LAAAIvGRGLVAYDVV
15233	45601	A	15323	92	778	QGTRRWSLGTCSLMTRTQFEV CTKVCVQESLQRPGEELKTRCP SVGAGYVNYGTPAHERI/GAAV KTGREADKPEVTKQTQFSTRK DE/TSLFGVPLQ*LLARHRAPP* RRT/RRLLEVARTPMLPAQASR SELAARQDSAWASPAAPASPN/ RSVLRRCLLSARPPLCGPL/LRV LPSWRRQQIRENSAED*LHSEY RANRIRRRRGHPEN/WTKS*LE NPENLTRRSSAPAPC
15234	45602	A	15324	142	500	

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15225	45593	A	15315	3	3027	AMEQAGTRPAATEHPRLRRPM PWLLLLPLLLLLLLLLPGPAASQ LRYSVPEEQAPGALVGNVARA LGLELRRLLPGCLRLNHLGAPSP RYLELDLTSGALFVNERIDREA LCEQRPRCLLSLEVLAHNPVAV SAVEVEILDINDNSPRFPRPNYQ LQVSESVA PGARFHIESAQDPD VGANSVQTYELSPSEHFELDLK PLQENSKVLELVLRKGLDREQA ALHHLVLTAVDGGIPARSGTAQ ISVRVLDTNDNS
15226	45594	A	15316	1	775	MPCVNGKYNSTIQAGLQMAQI LQDEGPYEVGIDEETGSQKGDG IIRSSRKL LFTMALFLETNLLKD PLSRERRWRLDELDSGGREKG VAVFLRSAGIRQVQVAMEQAG TRP/AATEHPRLRRPMPWLLL/L PLLLLLLLLLPGPAA/SQ LRYSV PEEQAPGAL/VGNVARALGLEL RRLGPG/CLRLNHLGAPSPRYLE/ LDLTSGALFVNERIDREACLGS AGANPVAVSAVEVEILDIN/DNS PRFPRPNYQLQVTARCWWTWS
15227	45595	A	15317	2	165	
15228	45596	A	15318	1239	2251	TCSSRARRPRRGRTVSQVRGPA PWAPRRARLQQRGSLRGAARS PASPTSA/PSYSRASASAGPAAL QPQGAVTPGPSANLAAPGGTL VPAEGPRMPPVTAQSASSHPAP SASQPSSPAAASRGSLSV PQEVT ATLLASASSPTLDATRDAPATP RIAAPPGSATSSRGLGSQAQGS LGTKESISDSFGLGSPAVTQRTT APPDSAALSQDTRPEAAGSWPG PQTGACSVGSGTDRRD TAAAT EAQHLSSSESKEKTS AQKSGNCF GILKADFTISTLMDPEEMKDQF LRQVRLPSTDALKKQSI SNYRP PGKGKPQQYLGDSAWN MVSA GTIEGFYKE
15229	45597	A	15319	46	2859	

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15217	45585	A	15307	1	785	MWDVQGQDSSLLRGAGGPGLQL WFGRLQLHLGGLREHRDAWV HSRGLGSCSGMQGAATPTQNG RGSCSPAPASSMEHAAPAVPP CCSWCDSSSRSRWPATATTETG PRTVPSAQESA VGLLTASLLKG DSGSTGFCPLLSLAAPGTQQC SLGFCCTFERKRSSVSPAAPGTA APELAAAALMLMPRKNQIAVYE LLFKQGV MVAKEGVHLPRHPE LADKNV PNLHIMKAMQ\SLKSQ GHREEQFAWRHFYWHLTREGI QSIQ
15218	45586	A	15308	1	392	
15219	45587	A	15309	1	716	
15220	45588	A	15310	150	372	RRSNEWGV PVPVPARTGGG/HG QKTPPSPLPPSSPPSPSPPPPPA \APAKIPPLPLPPLPPREAPPAP GPALP
15221	45589	A	15311	218	740	KSCPETVSR RKNVGSIKKHQGD KFNPVCLKMTTKTEFVLCGWV PCRCL/REGEEETVTTLDYSHCS VLEQVP\KEIFTFEKTEELYLDA NQIEELPKQLFNCQSLHKLSPD NDLTTL PASIANLINLRELDVSK NGIQEFPENIKNCKVLTIVEASV NPISKLPDGFSQLNLNTQ
15222	45590	A	15312	96	297	
15223	45591	A	15313	469	5174	KMTSLAQQQLQRLALPQSDASLL SRDEVASLLFDPKEAATIDRDT AFAIGCTGLEELLGIDPSFEQFE APLFSQLAKTLERSVQTKAVNK QLDENISLFLIHLSPYFLLKPAQ KCLEWLIHRFHIHLYNQDSLIA CVLPYHETRIFVRVIQLLKINNS KHRWFLLPVKQSGVPLAKGT LITHCYKDLGFMDFICSLVTKS VKVFAEYPGSSAQLRVLLAFYA STIVSALVAAEDVSDNIIAKLFP YIQKGLKSSL
15224	45592	A	15314	267	495	GCLL**CLCIRL/SKNRAERALR PYSDVEALRLSSDFPFRQRPKG GSGWSLLSVEINQYYGPRVMIG RSNSEVVLVL

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15214	45582	A	15304	184	370	
15215	45583	A	15305	40	1411	RGDPRVRRRTQSLSPVLSLSPDS MSFTTRSTFSTNYRTLGSVQAP SYGARPVSSAASVYAGAGGSG SRISVSRSTSFRGGMGSGGLAT GIAGGLAGMGGIQNEKETMQS LNDRLASYLDRVRSLETENRRL ESKNPEHLEKKGQVRDWSHY FKIIEDLRAQIFANTVEQCPTTV L/LRIDSARLA\ADDFRVKYE\T EAGPCAQSVENNIHGLCKVIDD TNVTRLQLETEIEALKEELLFM KKNHEEEVKGL*AQIASSELT EVDAPKSQDLAEIMADIRAQYD ELARKNREELDKYWSQQIEEST TVVTTQSAEVGAAETTLTELRR TVQSLEIDLDSMRNLKASLENS LREVEARYALQMEQLNGILLHL ESELAQTRAEGQRQAQYEAL LNIKVKLEAEIATYRRLLLEDGE DFNLGDALDSSNSMQTIQKTTT RRIVDGKVVSETNDTKVLRH
15216	45584	A	15306	392	1449	GPWEMLMTIKSHPDARQPQR VKKLTQVFWSSASLRER/GKTY LFWPKLKAAEIPAAAYREALDE ALGISGGGRDVGERVYKGPSM MANPQKPVLEALSSNKYLHILC AKHCDRHEGYKDEIKVKEASS RVNGCVEAMLSAPLPLDRRNE HVESKGKPFMTGLSPRVLSASR RDGLRERKGSFFRTTVVLHDTKT DSNSDTETNSSTPPRTLLEMQIL SPTWTYEISSRTLGCGPSVFQQ RASYSPPSVSGPRLGCPLMDGGR MRCPPGNPESCVSEANLIPISVP VAPHAHQHLVLSVFWKITIVIG GKTCVAQNHSNEAKMKQRPEI NHASPPGAFAWSQSGEPIASAM TVPA

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15210	45578	A	15300	710	1831	IRMKSKEIIARCIKPYHSMARTQ PGTRNKENGPAIPTALDENVASS DDTGRHRPQTTQLAPGFAHPLQ LASFRRMVLFSLSGEGRSRGGPE LQFPASCRRGEGSPGVRESGSG GIAATSTPNYPNPQDSKEHDIR GAEHQKQEQPAKPPHTARSAY PPQKSSYPANAKATRHSPETAA AKEARAPAAAQQRHQPNPSP APHTRPATAATRQPERRVPSPT HRHPAATRLSPRRQSPSPRPHH DRRGFPRLAETLQHPCPLPLV ASAGHHRHRLLLLLAPQAPER EASDEIVFSGRSRSGCPTFQE SAMCFPNPGLPDSCGESQAVTI LILRKFKQVIWVIEVPLDYKKG SWEYFSRMETIIMPENIQSE
15211	45579	A	15301	77	1041	IPSCVVSGIAAAF/HPGLASDAP ARASSWWTHVEMGPPDPILGV TEGFKRDTNSKKMNLGV SAYR DHNGKPYSIHKAEAQIAAKNLD EDYLSIGRLAEFCKASAEVALG ENSEVSKSGRFVTVTISGTSAL RIRASFLQRFLKFSQDVFLPKPT WGSRTPIFRDTGMQLQGYRYY DRKTCGFDFTDVEDISKTEPQ SLLLLHACSHNPTGVDPGPKQQ KEIATVVKKT/RNFLALFDMAY QGFASGNGNKDAWAVRHSAN IRHCRCQSYTKNMVLHSEGVA GFTMVCKDADEAKRVESHLKI LMCPMYSNPPLNGTRLLLLPF
15212	45580	A	15302	1	1263	
15213	45581	A	15303	1	1146	MTGRQSLSPVLSLSSLDMSFT TRSIFSTNYLFLGSVQVSNYGA RPASCMAVYAGAGGSGSRISV SRSTSFRGGMGSGDLAAGMAG GLAGMGGIQNKKETMQSLNDR LASYLDRVRSLETKNRKLESKI REHLEKKGLQVRDWSHYLKT EDLRVQIFANTVDNAGIVLQID NACLAADDFRVKSLMTNVTWL PLETEMEALKEELFMKKNHEE EVKGLQAQIASSELTVEIEKSTT VVTQSTKVGD AEMTLTELRR TVQSLKMDLDSMRNLKASLEN SLREVEARYTLQMEQLNRILLH LESEMAQSRAEGQHIGEYEAL LNIKVKLEAESATYHRLDDDD FNLGDALDNSNSMQTI/QKTTT RRKVVSETNDTKVL

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15208	45576	A	15298	1	2104	MKHLKRWSAGGGLLHLLTLL LSLAGLRVDLDLYLLLPPPTLL QDELLFLGGPASSAYALSPFSAS GGWGRAGHLHPKGRELDPAAP PEGQLLREVRALGVFPVPTSV DAWL VHSVAAGSADEAHGLL GAAAASSTGGAGASVDGGSQA VQGGGGDPRAARSGPLDAGEE EKAPAEPTAQVPDAGG\CASEE NGVLREKHEA\VDHSSQHEENE ERVSAQKENS LQQNDDDENKI AEKPDWEAEKTTESGNE\RHL\ NGTDTSFSL\EDLFQLLSSQP\EN SL\EGISI\WGDIP\G\SISDGHEF FKHIYHVNFQPR\IS\QD\VNLH EAILLCPNNTFRRDPTARTSQSQ EPFLQLNSHTTNPEQTLPGTNLT GFLSPVDNHMRNLTSQDLLYD LDINIFDEINLMSLATEDNFDPI DVSQLFDEPDSDSLSDSSH NTSVIKSNSSHSVCDEGAIGYCT DHESSSHDLEGA VGGYYPEPS KLCHLDQSDSDFHGD LTFQHVF HNHTYHLQPTAPESTSEFPWP GKSQKIRSRYLETDNRNLSRDE QRAKALHIPFSVDEIVGMPVDS FNSMLSRYLTDLQVSLIRDIRR RGKNKVAAQNCRKRLDIILNL EDDVCNLQAKKETL KREQAQC NKAINIMKQKLHDLYHDIFSRL RDDQGRPVNPNHYALQCTHDG SILIVPKELVASGHKKETQK GK
15209	45577	A	15299	2	342	RRRFRVAAA AVGTA*AVVLSA RPSETWETRGR*RICPSSWP* GI*VNNG*K*RRHSVCQCSLWF PARCIKPYHSMARTQPGTRNKE NGPAGPTALDNVASSDDTGRH RPQT

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15205	45573	A	15295	3	1024	CGGIHSLVLRGCSLEPAFFYLRSA FSPTISACRHPMEDSMDMDMSP LRPQNYLFGCELKADKDYHFK VDNDENEHQLSLRTVSLGAGA KDELHIVEAEAMNYEGSPIKVT LAATLKMS\VQPTVFPWGAFEIT PTQWSLRLKCG\SGPVH\SGQH FSKLLEEDAE\SEDEEE\EDVKL\ LSISGK\RSAP\GGGSKVPQKKS KTLLLMKDDDDDDDEED\DDDED DG*WMDFGWMEEAEEKAPSE RNPIRDTPAKNAQKSNQNGKD SKPSSTPR\SKGQESFKKQEKTP KTPKGPSSVEDIKAKMQASIEK GGSLPKVEAKFINVVKNCFRMT DQEAIQDLWQWRKSL
15206	45574	B	15296	1	1107	
15207	45575	A	15297	1	1968	MLASMGVVAKEMKYLSSPYQP HAFHTRIKSLMTVNFQAQLWL PNEAGPTGDGDWGGDTHGCPS FSPHLPRFIQKQPWGTGRLLQ EHFSCSLVPVIPSRIEAFHLH ADLILNTLPSLVIHQIESHSEEL RARVSTYESGEDTIQCITVTWK PKYGATRWKDPGSPDGPLEER RLEDLSTRNNSIRLFRGCGYRV KQNSSQRPNKVCGLPDTGVLL QTKCGLVRNSQRSAQTNTKQH EELFSTAGIPENLSRRQEVLPGH GFTGWVGWTWKLTSGEVTF HHLATHKLSHASCRQGNFKP KGAMSVTRSTVHPHLAFLSAEI NGKCGRPCVFLGIWAINCGMAI LYERLSALVCVSVSERHLDYT MRFLFDIPPSTLEARIGSPLWAL SLHPLRSSTVTSSVELILPECTV AVLEIQYVFLGDTILFTTVGKA RSGTRDRDGGRAQIMQVLQ GK GRELDAAAQPEGQLLREVRVL GVPIPRARVDAWL VHTVAVG SADEAHGLLGAAAASSTGGAG ASVDGGSQAVQGGGGDPRAAR SGPLDAGEEEKAPAEPTAQVAD AGGCASEENEVLREKHEAVDH SSQREENEERVSALKENSLQQN NDDENKIAEKPDWEAEKTSER NERHLNGADTSFF\SLDLFQLL

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15198	45566	A	15288	1	278	MKFHDRGQM QPKPSPAEAVNS APQREPEGSILRAADPLVWAAK AMSASR/RGS/CGGSSADPRHTE RTPTEPDADTRFQPAETLAGPK TRAAGAG
15199	45567	A	15289	5	545	SFMTEAKSSPNPAQQLSTQRP SESARKVPSSSELQTLSCGLQRPCL HPGRPGDPYYASASTRTRSPS ARHAVWGRRGCYPEA/AVRAR EGPHPTLAPASTYGLASPPRAD SAHRPRHRSLTRLLPNRKLGG SADPRHTEPTPEDADTRFQ AETLAGPKTRAAGAGGQPWDS ANASPP
15200	45568	B	15290	121	822	
15201	45569	A	15291	1	1308	MLRMVGIEISNGQWSTPPCQVL HLEGNDIYNPKEQGLGNTCRW GWMAAGTRRNLCWAPFPFLNP VASLVLHSTIQIALQESKDRVL GTLINSPLVTSTDKANWSLRLA LEVGDGGGLVGLSPQPVGSGA MSRCPNCTRKLIGSGISPTSSTL AEEQGSVVKTHSHQGGARCSK EKGWQILLILVAGLCQLVVVV QNVGVRKIPRKYLAALRVAIGH ALAIERRRIRVDVADQAQDTDR DDRSFGRDRNRDSDKTDTDWR ARSATDSFDDYPPRRGDDRFGD KYRDRYDSDQYGRGYWYEYR DGPCRDMDRYGVGSGRRAFG SGY/RRDNDYRGGRDRYEDRY NRWDDGSCSSRDDFSRDDCRY NDRRPPQRPKLNLPKHNTPKGD DSSASTSQSSRASVFVGGAKPV DRAARETKVEEWLQKEQDKLQ HQLDEAKLE
15202	45570	A	15292	2	293	
15203	45571	C	15293	56	298	
15204	45572	A	15294	1	273	TRGPWCDSVLRGCSLEQRSFIS VRLLSYLSACRHPMEDSMDMD MSPLRPQNYLFGSLGAGAKDE LHIVEAEAMNYEGSPIKVTLAT LKMS

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15192	45560	A	15282	362	1323	HQLGRSALLDTRTVSMQKAKN GDAVTEPQVA/ENEANGKDTA EVDLLTKELEDFEMKKATARA VTGILASHPCSTDVHIINLSLTF HGQELPSDTKLELNSVRHYGLI GLNGTENSMLLSAVGKHGVPIPI EHIDIYHLTREMPSPDKTPLHSL VTVSSPRQRDDMSDGHLCSTAR RHTDIRDDRSPDAPDTARSLAR STITTRJFALATPSRTLQQVCS ALAYTSHPAARTQPLASTALTR RYMLPSPQLPSLRDHRRTNPLH SAVATIPHTTTGEADVSLLCIGL STLHYALVYHVSVLTAASAQS MSATDASIIFFEPKR
15193	45561	A	15283	3	537	
15194	45562	A	15284	1	455	MPRPEKLGKTQVPPLAECLTKD SFLGQKQASLGPLTFRDVTIEFS LEEWQCLDTVQQNLYRDVMLE NYRNLVFLVISS/HFTQDFWPD QSIKDSF/QRILRTYARCGHKN LRLEKIVKVSMRKHQIIHTGKK PYKCEECAKLLASQPLENMR
15195	45563	A	15285	1	397	FAVLMAHYDVQEEDPVLTVIT YMGLSVSLCLL\LAALTFLLC KAIQNTSTSLHLQLSLCLFLAHL LFLVAIDQTGHKVLCSIIAGTLH YLYLATLTWMLLEALYFLTA RNLTVVNYSSINRFMKKLMFPV
15196	45564	A	15286	191	1332	AIETQAITDNCSEERKTFNLNV QMNSMDIRCSIIQGDQTGPSVI AFISYSSLGNIINATFFEEMDKK DQVYLNSQVVSAAIGPKRNVSL SKSVTLTFQHVKMTPSTKKVFC VYWKSTGAG/CSQWSRDGCFLI HVNKSHTMCNCSHLSSFAVLM ALTSQEEDPVLTIVITYGLSVSL LCLLLAALTFLLCFAIRNTSTSL HLQLSLCLFLAHLFLVGIDRTE PKVLCIIAGALHYLYLAFTW MLEGVHLFLTARNLTVVNYS SINRLMKWIMFPVGYGVPVAVT VAISAASWPHLYGTADRMLAF KATAQLFILGCTWCLGLLQVGP AAQVMA YLFTIINSLQGGFFILV YCLLSQQAHHKFTPMEVPRQN HRCLQQN
15197	45565	A	15287	263	397	GRPPAPAAARVSGPASVSAG*KR VSASGSVGVRSMRRGSALLPPN F

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15182	45550	A	15272	94	4505	YLDMMSFVQKGSWLLLALLHP TIILAQQEAVEGGCSHLGQSYA DRDVWKPEPCQICVCDSGSVLC DDIICDDQELDCPNPEIPFGECC AVCPQPPTAPTRPPNGQGPGQP KGDPPGPGIPGRNGDPGIPGQP GSPGSPGPPGICESCPTGPQNY PQYDSYDVKSGVAVGGLAGYP GPAGPPGPPPGTSGHPGSPGS PGYQGPPGEPGQAGPSGPPGPP GAIGPSGPAGKDGESGRPRPG ERGLPGPPGIKG
15183	45551	A	15273	1628	1832	RRRRKARERRRLAAEQGRRMK EQCKDGFSE/QASGALKLMGSN EGEFKAEGNSKFTYTVLEDGCT KHTG
15184	45552	A	15274	1	362	
15185	45553	A	15275	1076	1240	LRQLL*LCPSWRLCLLGWQL HLFF*RHFFVHLVSQRCSAMS PSPRRCFSLHL
15186	45554	B	15276	480	1167	
15187	45555	A	15277	3	379	
15188	45556	B	15278	13	369	
15189	45557	A	15279	112	1112	WPPASPSASVIRTVKEFALTNP KSSTKETERKETKAEELDAEV LEVFPHTHEWQALQPGQACPC RNPTYGLNLQTGEREAKLQYE DKFRNNLKGKRLDINTNTYTSQ DLKSALAKFKEGAEMESSKED KARQAEVKRLFRPIEELKKDFD ELNVVIETDMQIMVRLINKFNS SSSSLEEKIAALFDLEYVHQM DNAQDLLSFGGLQVINGLNST EPLVKEYAAFVLGAAFSSNPKV Q/EWEAIEGGALQKLLVILATE QPLTAKKKVLFALCSLLRHFPY AQRQFLKLGGLQVRLTLGAGE GHGGARRARGHTALRPCHREK CSPRRRLS
15190	45558	B	15280	54	385	
15191	45559	B	15281	274	776	

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15176	45544	A	15266	1	743	PPLLIFRQTGSGVDLQQTPTNLQ LRVLTVRRKTDKRGHPHQKPI CSSPSSKTEGFRRSNYSKLKEE VQTHGKEVKNLKLDKWLTR ITNAEKSLKDLMEKTKARELC DECASLTSQFDQLDKRVSVME DQMNMKQEEKFREKRIKRNE QSLQEIWDYVKRPNLCLIGAPE SDGENGTKLENTLQDIIQENFPN ITRQANIQEIQRTPQRYSSRR ATPRHIIVRFTKVEMKEKMLR AAREK
15177	45545	A	15267	1	618	
15178	45546	A	15268	200	618	EVSRNNTRTKTSYKQDMNTSK GF*KDTST*PVT/KERSSSPATEQ CWTENDFDELREEGFRRSNYSE LKEEVRTNGKEVKNLKLDK WLTRITNAEKSLKDLMEKTM ARELCDERTSLSSRCDQLEERV SVMEDEMNM
15179	45547	A	15269	158	594	SGSSICCSPISTVLQPPLLTTPRQT GSGATSSK/SPTDLQRECSSSP AKEQSWMENDFDELREGFRRS NYSELKEEVQTHGKEVENLEK KIDEWLTRITNAEKSLKDLMEK KTMAREQCDECTSLSSRRDQLE ERVSVIEDQINEMK
15180	45548	A	15270	3	1453	LSDLELAAQSIIFAGYETTSSV LSFTLYELATHPDVQKQLQKEI DAVLPNKERSSSPATEQSWTEN DFDELREEGFRRSNYPKKEEV RTHGKEVRNLEKKIRQM\VTRII NAEKSLKDLMEKTMARELRD ECTSLSSQFNQLEERVSVMEDQ MNEMKKEEFRRKRIKRKEQS LQEIWDYVKRPNLRLIGVPESD GENRTKLENTLQDIIQENFPNLA RQANIQEIQRTPQRYSSRRAT PRHIIVRFTKVEMKEKMLRAAR EKEIQTIREYYKHLANKLEN LEEMDKFLDTYTLPRLNQEEVE TLNRPITGSEIEAINSPTKKSP GPDGFTAIFYQRYKEDLVPFFL KLFQSIEKEGILPNSFYEASIIIP KPGRDTTKKENFRPISLMNSDT KILNKILANRIQQHIKKLIHHDQ VGFIPGMQGWFNIRKSINIIQHI NRTNDKTHMIISIDAEKAFNKIQ QPFMLKTLNKL
15181	45549	C	15271	111	269	

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15173	45541	A	15263	3	845	PPKMPKGKKAKGKKVAPAPAV VKKQEAKKVVNPLFEKRPKNF GIGQDIQPKRDLTRFVK\WPRYI RLQR\QRAILYKRLKVPPAINQF TQALDRQTATQLLK/LVAHKYR P\ETKQEKKQRL\LARA\EEKAA WQKGTSP\TKRPP\VL\R\AGS*HP VTTLVEINKKASAGWWIAHRR GFPSSLVVFLP\ALCREKWGSPY \CIHKGKARLG\RLVTRKTCTTV AFTQVNLGRQRALLKLVEAI RTNYNDRYDEIRRHWG\NVLG PKSVARIAKLEKAKAKIELATK
15174	45542	A	15264	1	5796	
15175	45543	A	15265	1	2212	MPRVEKNIPGRRNSKGFEDPLE VTQDVTREWAKKVVKREKA SKINGAYFCEGRVGEAIRRT MKMRQQATLTMTVDKGDNVN ISFKKVLIKEEDAVIYKNGSFIH SVPRHEVPDILEVHLPHAQPD AGVYSARYIGGNLFTSAFTRLI VRILPPQPENIKISNITHSSAVIS WTILDGYSISSITIRYKVQKNE DQHVDVKIKNATITQYQLKGLE PETAYQVDIFAENNIGSSNPFS HELVTLPEAQAPADLGGGKML LIAILGSAGMTCLTVLLAFLILQ LKRVANVQRRMAQAFQNVREEP AVQFNSGTLALNRKVKNPDP TIYPVLDWNDIKFQDVIGGNF GQVLKARIKKDGLRMDAAIKR MKEYASKDDHRDFAGELEVLC KLGHHPNIINLLGACEHREGRD RRHLENQVPTLILRFSNTLSKR HTRRLYPEPGSEGPTPEPRSL AQQSEIKLHGGSEPPLIFRQTG SGVDLQQTPTNLQLRVLTVRR KTDKRKGHPHQKPICSSPSSKT KEGFRRSNYSKLKEEVQTHGK EVKNLEKKLDKWLTRITNAEK SLKDLMEKTKARELCDECASL TSQFDQLDKRVSVMEDQMNE MKQEEKFREKRIKRNEQSLQEI WDYVKRPNLCLIGAPESDGEN GTKLENTLQDIIQENFPNITRQA NIQIEIQRTQPQRYSSRRATPRHI

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15167	45535	A	15257	1	890	MSKSESPKEPEQLRKLFIGGLSF ETTDESLRSHFEQWGTLTDCVV MRDPNTKRSRGFGFVTYATVE EVDAAMNARPHKVDGRVVEP KRAVSREDSQRPDYFEQYGKIE VIEIMTDRGSGKKRGFAFVTFD DHDSVDKTVIQKYHTVNGHNC EVRKALSKQEMASASSSQRGRS GSGNFGGGRGGGFGGNDNFGR GGNFSGRGGFGGSHGGGGYGG SGDGYNGFGNDGSNFGGGGSY NDFGNYNQSSNFGPMKGGNF GGRSSGPYGGGGQYFAKPRNQ/ GGYGGSSSSSYGSGRRF
15168	45536	A	15258	1	286	
15169	45537	A	15259	1	1674	
15170	45538	A	15260	235	1370	KREGEGRLADTFVSLLLSARGR RRRSIVKVS LHPAVMSKSESPK EP\EQLRKLFIGGLSFETTDESLR SHFEQWGTLTDCVVMRDPNT KRSRG\FGFVTYATVEEVDAAM NARPHKVD\GRVV\EPKRAVSR EDSQRPGAHLTVKK\IFVGWH* RKTTFWGGKKKRAKKHHLRD YFEQYGK\EVIEIH*LDR\GQWP RKRGF AFVTF\DDP\DSVDKIVI QKYHTVNGHNCEV\RKALSKQ E\MASASSS\QRG\RS GSGNF GG GRGGG\FGGN\DNFG\RGGNFS\ G\RGGFGGT\RGGGGYGG\SVG DGYNGFGNDGSNFGGGG\SYN DFGNYNQ\SSNFGPMKG\GNF G\GRSSGPY\GGGGQYF\AKPR\N QGGYGGSSSSSYGSGRRF
15171	45539	B	15261	1	660	
15172	45540	A	15262	2	486	KMRQRERAQGKK/VAPAPAVV K/KQEAKKVVNPLFEKRPKNFG IGQDIQPKRDLTRFVKWPRYIR LQRQRAILYKRLKVPPAINQFT QALDRQTATQLLKLAKHYRP/G DKGALAKLVEAIRTNYNDRYD EIRRHWWGGNVLGPKSVARIAKL EKAKAKELATKLG

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15164	45532	A	15254	1	2423	MNGKNKTNIYQEPTVCQALHW TLARIGKEEPRRGQRGEGLLCS RERQPRGLSSPGTAAPAAPAAP TPPALPGHRTSGSPEGPEPILR RGGSADAPGRVKTWVNRPAAF VGKCLGDGSADTACDQAMKG QRGSNRKRKTSLSLTFTSSDM HAGGLSAAHPCAHSRAPPPASP SPYKGS LGTRTDGLTDSRADSA ASGARALGVDGQPQPSPRRAP PRPVGADGSSRGPPQGRRRVER RGPATQPGDSRALPEPRGVPAV HPAGSGSEWERPPPAAPSPEHR DKMLPGLRRLQLASARRPQFPF EAARWVWSPCFSSGTLCPFSQS ERPLL PFQGFPGTTLHQRLCP VAALHGS GKGQKWQQSHCYA AAVMEEPPAPGRSSES LQGPLS WAGGAPASACLLLMLLALPLA APSCPMLCTCYSSPPTVSCQAN NFSSVPLSLPPSTQRLFLQNNLI RTL GARHL WVQPAHPVALLQQ PLHHLPGHFPL\QALEELDLGD NRHLRSLEPDTFQGLERLQSLH LYRCQLSSLPGNIFRGLVSLQYL YLQENSLHLQDDLFADLANLE PTSFLHGNRLRLLTEHVFRGLG SLDRLLLHGNRLQGVHRAAFR GLSRLTILYLFNNSLASLPGEAL ADLPSLEFLRLNANPWACDCR ARPLWAWFQARARVSSSDVTCA TPPERQGRDLRALREADFQACP
15165	45533	B	15255	47	482	
15166	45534	A	15256	1	636	MRDPNTKRSRGFGFVTCATVE EVDAAMNARPCKVVGR TVEPK RAVSREDSQRPEDTEELHLRDY FEQYGKIEVIEIMTDQGS GKKR GFAFVTFDNHDSMDKT VIKY HTVNGHNCEARKALSKQEMAR ASSSQRGRSGSGNFGGGRGGGF GGNDNFGRGGNFSGHGGFGGS HGGGGYGG/SGDGYNGFGNDG GGGSYNDFVNYNNQSSHFGPM

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15159	45527	A	15249	378	1744	QTERNSININKKDIHTKTPSVRH HHQRPKLHKTTKMGKKHSRKA ENSKNQSGSLPPKECSSPAVE QSWTENEFDEFTEEGFRVRIESQ MNEIKGEEKFREKRVKRNEQSL QEIWDYVKRPDLRLIGVPDSDG ENGTRLENTLQDIIRENFPNLAR QASIQIEIQRTQPQRYSSRRATP RHIIVRFTKVEMKEKMLRAARE KELKIKKLTQNCLTTWKLNNLL LNDYWVHNEMKGEIKMFFETN ENIDTTYQNLWHTFKA VCRGK FIALNAHKRKQERSKIDTLASQ LKEIEKQEQTHSKASRRQEITKI RVELKEIETQKSLQKINESRSWF FEKINKIDRPLPRLIKKKREKNQ IDTIKNDKGDITTNPTIEQTISRE YYKHLYANKLENLEEMDKFLD TYTSLGLNKEEVESLNTSITGSE VEAIINSIPTKKKSRTRWIHSRIL PEVQGGAA
15160	45528	A	15250	935	1269	LIEGKLTERNSININKKDIHTKT PSVG/PPSSKTKDRSSLPAIEQS WMENDFDELTEVGFRRSVITNL SKLKEDVRIPHKEATNLEKRLD EWLTRINSIEKTLDDLMEKTM
15161	45529	A	15251	401	497	KTFSPFYFS*RRRTVRDINGFTE Y*EPEKLLG
15162	45530	B	15252	220	940	
15163	45531	A	15253	1	1476	

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15157	45525	A	15247	I	1808	MAEETQHNLAAAKKKSATGF HREGPTSSATLKDLESPCQERA VVL DSTSVKISRLKNTIKSLKQQ KKQVEHQLEEV TAPDNLVPWV GLSWGIGGILGACLLCHLCLP LEKKANNERQKAERELEVQIQT LIIQKEELNTDLYHMERSLRYFE EESKDLAVRLQHS LQCKGELES ALSAVIATEKKKANQLSSRSKA RTEWKLEQSMREEALLKVQLT QLKESFQQVQLERDEYSEHLKG ERARWQQRMRKMSQEICTLKK EKQQDMRRVEELERSLSKLN QMAEPLPPEPPAVPSEVELQHL RKELERVAGELQSQVKNNQHIS LLNRRQEERIREQEERLRKQEE RLQE QHEKLRQLAKPHCAFSRS *TMRTRAHLQLEQQVKELQE/Q ALARVFLQVELKSQEAQSLQQ QPDHYLGHPAAEHLEAASQQN QQLTAQLSLMALPGEHGGEH LDSEGEEAPRPMPSVPEDLESR EAMVAFFKSAGASAQEKQAQL QEQVKEQRVCCQRLAHPVASA QKEPEAARGPGAPGPGGESSF MDHLKEKADLSE/PGEKRTLLH P/PTG/GDRRHQKTHHLLSEPGG CAK/DAALGPGHHQAGAQQGD
15158	45526	A	15248	2085	2700	YPGKRGLEWT*ANSNRPA AEG PDE\SSSLPATEQSWMENDFDE LRKEGFRRSVITNFSKLKEDVQ THRKEAKNLEKGLDEWLTRINS IEKTLNDLMEMKTMA*ELHDT CTSFSSRVDQVEERLSVI*DQM NEMK*EEKFREKRVKRNEQSL QEIWNYVKRPNLHLIGVSEIDR ENGTKLENTLQDIFQENFTYLA RQANIQIQEI

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15149	45517	A	15239	1374	2220	QAENSHININKKDVHSETPSEG HQRKRPKDHSSSPAREQNWME NEFDELTEVGFRRWVITNSSEL KKHVL TQCKEAKNLEKRLGEL LTRITSLEKNINDLMELKNTAR ELHEAYTSINSWINQAEERLSEI EDQLNEIKREDKITEKMKNSTT VLVSTWGSQLEQNNLPHIISPLF HSTHDLNISFYGGCLLQACSSK LLQGLAEGGPLRLTRSASFFAA KLCLTKHFLPTMILIKSRKTP DTQPRRLYLLQGVVDQTSRKG PTALNIRQKTFAAAPPHR
15150	45518	B	15240	1	1311	
15151	45519	B	15241	46	212	
15152	45520	A	15242	3	371	EPLPPEPPAVPSEVELQHLRKEL ERVAGELQSQVKNNQHISLLNR RQEERIREQEERLRKQEERLQE QHEKLRQLAKPQSVELK\SQEV QSLQQQPDHFLGHL\QQYVAT LSAARWAAYQQLD
15153	45521	A	15243	392	558	
15154	45522	B	15244	52	689	
15155	45523	B	15245	400	603	
15156	45524	A	15246	5	1158	RKFWRWMVVMQAQHSQAAQ GQRR**VSKGP**PGPMGGPVL GHWVHSGGISLAVPSLPPPGKS SVFLFLFSASFSDMKLNPGTVSP RLIFGSYDDGFLVETVVKFDFQ LWQKTPLHRAAGERRRAEQRG KLSFVMP

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15130	45498	A	15217	1	964	MNVK GDTQGNTRVRVDNIGG VGAQTVNGIELIEVGGSAGNF ALTTGTVEAGAYVYTAKGKG NDEKNSPSVYRP/EAGSYISNIA AANSLFSHRLHDRHSC LQPLKI LVTGGAGFIGSAVVRHIINNTQ DSVVNVDKLTYAGNRESLADV SDSERYVFEHADICDAPAMARI FAQHQPDAVMHLAAESHVDRS ITGPAAFIETNIVGTYVLLEAAR NYWSALDSDKKN SFRFHHISTD EVYGD LPHPDEVN NTEELPLFT ETTAYAPSSPYSASKASSDHLV RAWKRTYGLPTIVTNC SNNYG PYHFPEKLIPLVILNALE
15131	45499	B	15218	44	405	
15132	45500	A	15222	1	498	MTRSLLSVFEEDAGTLTDYTNQ LLQAMQRVYGAQLNLLHTELA KQL\ETQWFYLSYNSEKRISQTL SAMWRGRAAQA/TQGHVWVG MVEAVCSKVSTLKDLFGLASN EHDLSMAKYSRLPKKKENEKL AAFGQPTWCDPAERVGFLEPV GPDPGA KSAPSPRDRASTL
15133	45501	A	15223	1	1224	
15134	45502	A	15224	1	1353	
15135	45503	A	15225	1	2580	
15136	45504	A	15226	1	3117	
15137	45505	A	15227	1	1260	
15138	45506	A	15228	1	2142	
15139	45507	A	15229	1	1413	
15140	45508	A	15230	1	4049	
15141	45509	A	15231	1	381	MLMLNIGFKNFQFEHLKCSHGS YSEDIGFPNAGALSGAMFLLEE KHL LFG LKEEERLRASIRRESQ QRRMREKQHQRGLSASY\WNLI DTMRRRKARSP/YSLAAIKNRY KGGIRDQKPSYDSLNL CMT
15142	45510	A	15232	1	467	DHSSSPAREQNWME\EFDELT EVGFRRWVITNSSELKKHVL TQ CKEAKNLEKRLGELLTRITSLE KNINDLMELKNTARELHEAYTS IN SWINQAEERLSEIEDQLNEIK REDKITEKMKNSTTVRVAASM QSKLLQGVAE EGPLRLTRSASF
15143	45511	A	15233	1	1140	
15144	45512	A	15234	1	2640	
15145	45513	A	15235	1	714	
15146	45514	B	15236	1	546	
15147	45515	B	15237	1	735	
15148	45516	B	15238	50	1603	

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15126	45494	A	15213	3	471	GRPSSPGVHGSSTQTPAHVGSF PGCGPIPPD/ACRRSKIRPGGGW GGVGG/CRDGRNSR/DLRNLPC PFLFLPGP*AAAPSPWPAAAGA APCGQCLDGWPHSYSHGHSSA AGRGGICRSPLLAGELRPPGIQ YNGRTEVRGILSGSPCPPFSGAG
15127	45495	A	15214	3	449	PHQDLEEAMVLL*PPSP/PAWPT MRTRKRPSSKVSSTSRPLRKSIM TTYAVPSRAPTPA*PSASKPTNA FS/HMVGSEPRSHAHLDGRHRD SR*RKPRPLSGPRTLGGKSLRGS AGAGRGGVPRPRPLPENLDAPL WNSPGNSAGAAVQLA
15128	45496	A	15215	26	1126	EGPSSEAAHPGGTPREQDGAM DPARKAGAQAMIWTAGWLLL LLLRGGAQALECYSCVQKADD GCSPNKMKTVCAPGVDVCT\ EAVVAVETIHGQFSLAVR\GCG SGLPGKNDRGLDLHGLLAFIQL QCAQDRCNAKLNLTSRALDP AGNESAYPPNGVECYSCVGLSR EACQGTSPPVVSCYNASDHVY KGCDFGNVTLTAANVTVSLPV RGCVQDEFCTRDGVTGPGFTLS GSCCQGSRCNSDLRNKTYFSPR IPPLVRLPPPEPTTVASTTSVTTS TSAPVRPTSTTKPMPAPTSQTTPR QGVEHEASRDEEPRLTGGAAG HQDRSNSGQYPAKGGPQQPHN KGCVAPTAGLAALLLAVAAGV
15129	45497	A	15216	1401	1983	AQRAQALECYSCVQKAD/DGC SPNKMKTVCAPG/VDVCTEA VGAVE/SHPFWIWPRPFNAAPP LSAWPGPYDTALQARPLY*QL QARGAES*ELVH/GQFSLAVRG CGSGLPGK/NDRGLDLHGLLAF IQLQ/QCAQDRCNAKLNLT/SG LDPAGTSPPVVSCYNASDHVY/ KGCDFGNVTLTAEPPTVASTTS VTSTSPQ

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15123	45491	A	15210	1	1297	MGKIMSSYQHVDLIVDCDFEA YHRQPSSGTSVVTGPSAQALI TEKIVTYHWDQHVGDVVLVNI YCVINVLDHTVKAVIDDRFMG GITTINLQLMAIIVRYFFASGSA YIVAMLVPFAMLANVSGAPLM LTALALLFSNSYGGMVTHYGG AAGPVIFGVGYNDIKSLCFDER TRIDVADTYASNWRSRCNQITF NGECPNTRQHIAAVRRGIDTLL MNDYLRKQIIDISTRIAGTANN GDFTGQWITAANTVNFQIVAGT HNCHQYFIALRLIFGILKYIQDR AREGLKQRDLAEALSTSPQTVN NWIKRDALSREAAQQISEKFGY SLDWLLNGEGSPKKDLESNIPP ESEWGTVDADWKNTPLPDDEV EVPFLKDIEFACGDGRVHDEDH NGFKLRFSKV\VQPRVGC*QG* G*LLYLDV**GDPLEST
15124	45492	A	15211	62	301	SWMSSPRAFSSSTCLETAAPTR MATALTSAACRLPPAAGSGSP WAPAPYRWRARRRTGPMSDR Q*RTSQPCPEPAAASR
15125	45493	A	15212	1	1665	MQDSAPHLRRLPPAASRRVWLA LGSCPLPLESSPAHRAYERPSVA HQPAVPGARRSLEVPSEVPLTV PALTPPRIPAMLTAVCGSLGSQ HTEAPHASPPRLDLQPLQTYQG HTSPEAGDYPSPLQPGELQSLPL GPEVDFSQGYELPGASSRVTC DLESDSLAPGPFKLLQPDMS HHYESWFRPTHGAEDGSWWD LHPGTSWMDLPHTQGALTSPG HPGALQAGLGGYVGDLQLCAP PPHPAHHLLPAAGGQHLLGPP DGAKALEVAAPESQGLDSSLD GAARPKGSRRSVPRSSGQTVCR CPNCLEAERLGAPCGPDGGKK KHLHNCHIPGCGKAYAKTSHL KAHLRWHSGDRPFVCNWLFCG KRFRTRDELQRHLQTHGTGKKF PCAVCSRVMRSDHLAKHMKT HEGAKEEAAGAASGEGKAGGA VEPPGGKKGKREAEGSMASSSPD SPCSCDCFVSVPASAIPAVIFA HELGPTPGRGAGGGVCPRRHS HSWEPAPGL*AVGGGGGASGQ AGDRGCHA*EAGRS/SCSRRGS GL*RAGTS*ISASS

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15119	45487	A	15206	31	1981	RWLMRGMGIALPAAMASTVSP STIAETPEPPPLSDW/LRASG/DV WVHLLGLDPHLLSSLLLSICLFSR SLIWIF*LQP*SV/ALAFQMGAS LFASNIGVIEGEGPQAKPL*CLT VSYFEMLNLLNAQGPKGKLSP CQCLSLQVMTMPEYLKKRWTL GQRSQWPQMHSVFS*LFPP*A DIFAGAIFIKQPSGEGKYMRT G*NALVLFFLSLGGLEVVIINIG CLRQ*DISFYSDAFLAFNEVGG YESFTEKYVNATPSVVEGDNLT ISASCYTPRADSFHIFRDAVTGK GR*LPLKSSPGLFHECVTFSRQV IVQRCLACGKDMSHVKAACIMF LFV*WLLVLPWASLDSLLNSSP DMVACVVPSECVISTLSGLARQ CPATNQCLYPFPAPGLRGLMLS VMLASLMSSLTISFNSASTRTK AQWK*L*CFCLMFKLCCFLLR FVLLLTVVSVVWVPLVQVSQNG QLIHYTEI***LT*ISFSYFLNLI FFLLLLQGAFWGLMVGLAMGL IRMITEFAYGTGSC LAPSNCPKII CGVHYLYFSIKVPFYTYIANICL LLMHFCMVVPVQLYRLCWVLR NTTLTRISSSFVI*IFCNHLLIFVP DYPEKSRGCLKKAYDLFCGLQ KGPKLTKEEEEALSKKLTDTSE
15120	45488	B	15207	1	1392	
15121	45489	A	15208	57	1523	
15122	45490	A	15209	473	589	LPRQLALSCVVHCQTLVPAIRCI DWGWLF*W*SVTPVM

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15117	45485	A	15204	1474	1511	HS*VPANLYMELKACFTGA/NE KGELVVLGHNLA VSYFIALAAS LRADCCEI WTDVDGVYTC DPR QVPDARLLKSMSYQEAMELSY FGAKVLHPRITITPIAQFQIPCLIK NTGNPQAPGTLIGASRDEDELP VKGISNLNNMAMFSVSGPGMK GMVGMAARVFAAMSRARISV GLITQSSSEYSISFCVPQSDCVR AERAMQEEFYLAELKEGLLEPL AVTERLAIISVVGDMRTLRGIS AKFFAALARANINIVAIAQGSSE RSISVVVNND DATTGVRVTHQ MLFNTDQVIEVFVIGVGGVGG ALLEQLKRQQSWLKNKHIDLR VCGVANSKALLTNVHGLNLEN WQEELAQAKEPFLGRLIRLVK EYHLLNPVIVDCTSSQAVADQY ADFLREGFHV VTPNKKANTSS MDYYHQLRYAAEKSRRKFLYE HNTFVSPHIRPLIERRGRSSTRD KWCARPSTERQQDNSAARILSC QQGNTSFEHTSSIRVGT TNSLN
15118	45486	A	15205	198	462	

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15112	45480	A	15199	283	796	FVG VKSAGNRLKTIDELANESR SSVGLTQAALKTLESSGAIRIER RGRNGSYLVEMDNKALLTHVD INNVCAMPLPYTRYEGLASG LKAQFDGIPFYAHMRGADIRV ECLLNGVYDMAVVSRLAAESY LPQKGLCLAL*LGPPPYVGE\YQ L*QVKAKSEYVKRVGHV
15113	45481	A	15200	48	3376	
15114	45482	A	15201	49	681	DPGADRRGSVWGLSDLRNTYN ALYLTHSGRLSECP PANEEKE PTNHNRTLNTQTQKEKKKTRT KDCTTRNK NSTRPGSGIIAGPSY YTVAGPPSAIDPRWLRPTPAL DPQ*MPHTSKRGKRADQSQPN ANKPNTEREKKDKNEGLHHKE QEQ\QRP GSGIIAGPSYYTVAGP PSAIDPRWLRPTPALDPQTEPL IFQQLEIDHYVAGLTHEVMSLS HLTLVMRWGSVSAHLAHWA RCRWISTELTPNSITSTSSPLKD CSSSPAMEQSWLENDFDELTED KKTCLCDH
15115	45483	A	15202	3	587	
15116	45484	A	15203	3	774	MVLMAGFTAGNEKGELVVLG RNGSDYSAAVLAACLRADCCEI WTDVDGVYTCDPRQVPDARLL KSMSYQEAMELSYFGAKVLHP RTITPIAQFQIPCLIKNTGNPQAP GTLIGASRDEDELPVKGISNLN NMAMFSVSGPGMKGMVGMA ARVFAAMSRARISVVLITQSSSE YSISFCVPQSDCVRAERAMREE FYLELEESLLEPLAVTERLPIHS VGSDGNPPPCGGISPFFAALA PRPISKFVALCSGIPF

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15107	45475	A	15194	1	1388	MIEHPRRRDNYRQSGPPVADKP TTKGEPLISDIVSDAQQANLLIP VDETPPVINDEQSTSTPLTTAQT MALAAVADKNTTKDEKADDL NEDVTASLSALFAMPLPGFDNTP KVTDAPSTVLPTEKPTLFTKLTS EQLTTAQPDDAPGTPAQPLTPL VAEAQSKAEVISTPSPPSISGVT RSKMRQREWLVLPPEDSLVIRR SNKTSQLPAFNVPLSAAKAAAS KPWRASNTACRNSRPSKVCSAE GEQWFSASGRGEIHSQSPARDM AQMKCLAAEGHFAEARVINQR LMPLHNKLFVEPNPIPVKWACK ELGLVATDTLRLPMTPTIDSGR ETVSGDETYLEAAPLAELHAPA GMILPVTSGDYAIPVTNGSGAV GSYSAITEPGAGSDVGLKTTY TRRNGKIYLNGS/NVFYYQQL HPVHRGDGARRGFSGQTCLHR MVC*YEQTGHQSDQT*KARSA YG
15108	45476	C	15195	1	1905	
15109	45477	A	15196	285	1706	YARVHSGRSSIRRSIPVSICIRSSI RGCVPVHHCIRSSIRRSIPVDHL YQIIHTKKHTRCPFVSDHPYEE APDYSASLLPDWLPVPSSKVVI TYPGFTSICGYTTSSKACFSVF AWCFVTS DVPGRFSDEDEDDSE MWSLTALMGVMGGWKTSARS EVSILCSTSSKVIHSSYPYADRA FQVWSLDARFAHINKPFGVDRF SGEAPSRATTMYGVKVLNRPA TGTAHRLVPPDVPVPHGGESN KPRVQTTVSSGISRLSIPISASAL QNVDPDKTHDISNITDTVYHCPL SQSSRWYWRFPVRSPPLSNGQ TAVRPGGSRAGAAGGPLSEYS GSGFGVMKWTKDQLTVTVKV HHLPEVVEFLYKQGGWLSVL FGNDERKLNGHYAVYYVLSRE KGTKCWI/TDSMDYRQR/PAPT NDAETYEFINELGARKTTVPI GPLHVTS/DEPGHLRLFVDGENI IEANNE*IHRTQC
15110	45478	A	15197	3	1396	
15111	45479	B	15198	1	1399	

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15101	45469	A	15188	1	1446	MWRETKRYAAVLLLTPHYSAS LLPDW/PNLYLHQSGHHVPGVY LKFGISSNPIYPCVDSAKTVFPN APLHDRVQSVRRMGPFKGVFR KVFSNLGFEYSLSTWATMGSPG SLGVSPFGKTLFVESASGSLDA LWPTVEKEISSHKNYQKHSEKQ IYDVRIELTGLNALPNISLNFYK NSVSKLLNRKKGLIHLQPFILR LCVSLHKNREENLGITIQDVAM RLSALPNIVCRLYKKTASEVLK EWSTRWDEYTHHKEVSQKALP TLSVKIYKKNICQLLNQNNGNPN SEMNALITKKS VKSASGYLESI AALVEKEISSYKNYTEAFYNLL CDVYSHVTEMKLSSIEQIGNTL FVESASGVWRALRPRGKEVNDI FIDQIANSVLVDSSKDICKRFEA CGAMVKKENLHIKTRQKISEKL HWPFGAPRLTSLTGPEKTGKGE HPGAKARGELSGAPPLIHRKL SLMSNVETLLLEKLQGYTGAH
15102	45470	A	15189	1	966	
15103	45471	A	15190	157	531	GDHTTFLCLLMVNAEFKYNFK TIIS*DLLKKDSGQYGHFTIFFRS MSIGCFSIYLCIFNFFHQCFVVF LVEIFTFLVKCIPQVDSIEDTTFG HPEEATPHPFSSFFMRLEQFSHIF SSWPVSFTAH
15104	45472	A	15191	9	494	PTDRPRPRALAGARGPPGRAPR VPPAGGPRPSQYGHGGRPNPR HGWHDAFCPNNTPYRERPLDS RYLTPGPLDMRGDSGFRTGRGS DVGSLKPTDTRRNGKIYLNGS/ NVFYYQQLHPVHRGDGARRG FSGRTCLHRMVC*YEQTGHQS DQT*KARSAYG
15105	45473	A	15192	1361	2038	
15106	45474	A	15193	1376	1906	LAFPDGMASLIMMSLPAMRTL AWAMAVSGNCIPEGQFSALSC ADFGISPKLIL*SSSAPMYLAMG ISCPRADDLPEAGTAETDRACR SIPQYGTDLGWYPATAAGPQSE SVQGAV*PHRYEAG*ST/VWKP LKKK*KPLPRR*LARWQMIRFR KPSPLTTSKLTCARFLDFRW LE

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15095	45463	A	15182	881	2040	MKAGWRQTQHLHDAGQLLHLI LPGEQGVARVQLRRDAAQAPH VNGHVVGVAQDHFWSVEPA LDVRVYCGGKTGGKQRRERREG RCGVEILMVGERKMENKEDT SKESEYKDESEKDLEGLTNEN EKSDASIIEMACEKEENINQDLK ENETVIEHSKQLSDPDKSLQDE VSPRRNDFISVPSIQPLDPISDS SENSFQESKLESQKDLEEEDEE VLPRSSNSCVSGIKKEDSAKID VVTHSSTGEPLAYI/ASTYKLAY IPPLNRKTCPSSAAISDRSKNG KSN/HGQSAHISSVTSTYCLSP* QKEL/QKREQKREKLKREEEQQ KIEEEEEKKRENGIVFKAWLQK KREQVLEMRRRIQRAKEIDMNS RVSKTSLKNKFIQI
15096	45464	A	15183	873	4292	MVVSLGRVSSLSSEDSDPTGRVG R*VDCKVDRSIWAGVWISEDAP SEA*EIGGLGRK*MLSGGPQSPS KHVHIL*DQDSSSIPEPMGPCCP\ PHAPGKEPGTSCSIDTDGKLSG VSGDDS*T/GTDGGESEEILLPQ *QLPVTLPPLPG*VRYTSRSL SRSRSTRDPGRKSRPISGLRGLC GDGATS/PLTPRHAPARDVQ/PG VSMAFAGDR\GDGGRRGGASQ/ PAPPGPAVPRPCAQYSARAMPA SGRRES
15097	45465	B	15184	1	2214	
15098	45466	A	15185	3	361	
15099	45467	A	15186	1	1035	MKIHKSGGLKATPQLYASQFSG VAILATWGPHRPRNSSTSFSTQS KLRRPDESSVDFQKLMLCKEAT KKSKEKEPGMAFPQGHLIFSDV AIKFSVEEWKCLNPEQRALYRE MMLNRYRNLES/VG*LFKIHDG VLINRARQYRSVPHRDIGKT*FL LPRNQERYSGL*VSVARN*KK WP*STHDRNQRVN*VHTGEKP QKCNECGKTFQSQSYLQCHHR LHTGQKPYK*E*CDKVYSCRSQ LKTHRRRIHTG\EKAYKCKVCEK AFWDNSCLSCQKR VHIGEPYT ALVMHKAIHTGEKPYTCNECG KAFSRKANLALYHRLHTGEKP YKCEECDKVYSRRSHLERHK
15100	45468	B	15187	1	1347	

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15091	45459	A	15178	76	969	KKSTALVIDNGSCMCKAGFAG DDAPQAMFPSTVGFPGHQGVM VDMGQKDSYVGNEAQSRSIL TLKYPIKHGIITNWDNMEKIWH HFYNELHGAPE*QPVLLEDPL NPKDNREKMTQIMFETFNTPA MYVAIRDVLSLYAFGRRTTGIVM DCGHRVTHTVPIYEGYSLPHAI LHLDLTGWDLTEYPCILLFSEK SYELPDGQVITIGNEFWWCPEV LFQPSFPCMESCRHQTTINSIKK CDVDIRKDNTVLSGGTTMYPG IADRMQKEITALAPSTMKIKIIA PPERKFSVWIGCS
15092	45460	A	15179	1	451	
15093	45461	A	15180	130	227	LMKMKKVM*RA*KEEERRTPP AEDDFEKDLEWLINENEKSDAS IIEVYIANSIHNNYITKCFAIL
15094	45462	A	15181	104	1715	KEEERRTPPAISVIPAAAFYTAY FLHKQKMENKDTDSKKSEY EDDFEKDLEWLINENEKSDASII EMACEKEENINQDLKENETVM EHTKRHSDPKSLQDEVSPRRN DIISVPGIQPLDPISDSSENSFQ ESKLESQKDLEEEDEEVRRYI MEKIVQANKLLQNQEPVNDKR ERLLKFKDQLVDLEVPLEDTT TSKNYFENERNMFGKLSQLCIS NDFGQEDVLLSLTNGSCEENKD RTILVERDGKFELNLQDIASQ GFLPPINANSTENDPQQLPRS SNSSVSGTKKEDSTAKIHAVTH SSTGEPLAYIAQPPLNRKTCPS AVNSDRSKGNGKSNHRTQSAH ISPVSTYCLSPRQKELQKQLEE KREKLKREEERRKIEEKEKKR ENDIVFKAWLQKKREQVLEMR RIQRAKEIEDMNSRENDRPQQA FRLWLKKKHVEEQMKERQTEEL RKQEECLFFLKGTTEGRERAFKQ WLRKRMEKMAEQQAVRERT RQLRLEAKRSKQLQHLYMSE AKPFRFTDHYN

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15088	45456	A	15175	777	1548	SKIQRDSQAPLYSIEETQRANT HLVEGEPEAEIAFKTLKQALVQ APALSLPTGQNFFLYITERAGIA LGILTQTRETTPQPVAYLSKEV DVVAKVWLHCLRDGEPIKHDC QQIIVQIYAARDDLLEVPLANP DLNLYIDGSSFVENGIRRAGYAI VSDVTVLENSLAAVTLQNRQG LDLLTAEKGGLCTFSGKECCFY TNQSGISSPLEDTTITAGPFLHPI QQEVARAIIGQFPTAFGVSCLE GRLRGEASWTSWVE
15089	45457	A	15176	1	1359	MGPEPKNTHPGSCTCPLACSSS HKGFECLAVEQGSYTPVASPIV GVKENQEILDLELKYNQTRSA VTRCVLGAASTARIKQAEEGGR SRLAESSGLRPFVLELPALHQ TPSSSGFELDLHQRLATWSQA FNYRLKDTLLASLLLRFWDS WLPCSSVCSWPIVGLHLVIIERN YSYQQGTETVSSWATGVSA ASVSATIPINRVQGHCGFLGKR CFYCCIGECNHS DHQPGTVAG SWARGVSATASQIQVDLGKFS DDPDRIYIDVLHLTWRDVMLLL DQTLAFNENNVAAAQEFGD TWYHRPVNDRMTAEQRDKFPT DIKTAAGIPWNHWLLLTMDPQ TQRDSQAPLYSI*ETQRANTYL VEWEPEAE/TSFKTLKQALVQA PALSILTGQNFSLYVTERARLAL GVL TQTCGTTPLYQDEL RKKTL RHRDSESGFNQLEASAD
15090	45458	A	15177	368	5192	AAPAPQLGLGPCKLASHLLSQS HLSQSVRSEAEQKAGASPASSI QREPLFKDQLKAPLPEQKRRL LTVPLLTFRQKCGPGSPLVAR GGATDSWLVSSEFRLSDSTAPP TELRGQEATGITKPPASLHPQPH AWDWARGRDRRHLLGTPELQ EHSEKTTTETLPADMGKLRTW ERKEATAGQAAEGAAGGIHFE ATSLLRPSSYVPQTQ GALSTTY KEAKMDRDLHLTPILAAQRAR GPRIHSFSPSEMIEPS

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15083	45451	A	15170	1	1569	MPIGKVG EYYIKGTLRATKESE QQSSALELSSDRVYLNEKEPGD QPWNAAFVFRGCGVALALRPP HLGWGEPRWAGFRGAFGFPS TLNPSNWSLTLIIQGCKQEGFYS PSMRPRVVPKRGSAPKVRAEEN AALPSRCPPGPLPVAQPRGLLM GAHVSSAPAVGVGAASCHRLC PGFPDRPRPTLRSCIMNAVVG CDLRGQVYDPTGGWANEGTR DLSAVQGVNHPGGRPCPTPQS SRQLPVVSRRPVVRPGGEAPPP LDILPAALALHQSLTPQDPRE DRPSPADLWAQDSWVGQPQEL PVGSRVRTGTEDTHSGSVCTS RQKDGSGPLARESSVRVILQG PSSAWMMFPEYTPGPRARAGT AVVGAMARQTVNVCLTKVRL QHPEGIPGGGRGPLVPKPVCTC/ IVDVKGSRV\WHVHICMSMGC RNVCLCGRSVGSRMCTAGQT PKLARQASIELPSMAASSTKSW WETGEVQAQSAAKTPSCKDIV AGDMSKKSLWEQKGGSKTSST IKMDSVTT
15084	45452	A	15171	328	641	LLMRSWSLPSAPRGFSCSCLQP QYPCRTESWPQTEPVSPVSHR LLVLATAMLGSSME/RLAG*LG GPASGLDGLGVLFQPLINLGDG QVWLGLHTVTLLYGAV
15085	45453	B	15172	120	1458	
15086	45454	A	15173	1	440	IQQDSQAPLYSIKETQRANTYL VEWEPGAETAFKTLKQALVQA PALSLPTGQNFSLYITERAGIAF GVLTQTRGTPQPVVYLKDGE IEHDYQQIIAQTYATQDDLLEV PLANPDNLNLYTDGSSFVVGIR RAGYAIVSNTVLE
15087	45455	A	15174	288	376	NHWLLLTM DPRIQQDSQAPLY SIKETQRA

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15074	45442	A	15161	666	1536	FSSAGDTQANRVCSVPPTNHSR PAADRPVRRKVNKQKTATSTS TKRTSTQRPHPKVTNDHSSSPA REQNWMENEFDELTEVGFRR WVITNSSELKKHVLQTQCKEAK NLEKRVRVNCLTRJT*P*RRTI\ KTLMEKNTAREVLHEAYTSINS WINQAEERLSEIEDQLNEIKRED KITEKMKNSTTVRVAASMQSK LLQGVAAEGPLRLTRSASFSAEI SMCHQWLFSTFGNGKSRNRYH CEKAHIEGNQLVEETGRAFKSR HRYGTGPLHKFEIHEYTELHHV LMLQGKC
15075	45443	C	15162	104	364	
15076	45444	A	15163	162	467	
15077	45445	B	15164	1	1122	
15078	45446	A	15165	188	456	
15079	45447	A	15166	485	1580	GEGYKADLAAATVECPICQQQ RLTLSPQYSHIPQGDQPTTW*Q VDCIGPLLKGQRFVLTGIDTYS GYVFAYPVCNASAKTIISGLTE CLIHCHGIPHSIASDQGFHMA KEVWQWAHVHGIH*SYHVAD YPEAAGLIEGWNGLLKSQQLQC QLGDNTLQGWGKVLQKPMYA LNQHLYGTVSPATIHGSRNQD WNGSSLRGWTFITFTAPRREP GTYIASDQRTHFMAKEVWQW AHAHGIHWSYHVADYPEAAGL IEGWNGLLKSQQLQCQLGDNTL QGWGKVLQKPMYALNQHLY GTVSPATIHGSRNQGMEVEVA PLTITPGDPQAKFLLVPMTLCS AGLEVLPPEGGLPPGHTTIPLN
15080	45448	B	15167	10	2352	
15081	45449	A	15168	2	497	WKPIAMRKSRRRQEKLLPVQK EGQPKEGEREEGGPVQAQKVP NRLHLHWTT/HLPSFFQLPLLLD SLWRALKFVVLEAIVKMIRFNG VLGKCEAIRAQALHEGGPPLPL AVFHNRRLLQIVACSRISARLRGS PPPKSNNEQSSLSTDLRTDSQRL PPLSRNAQQKG
15082	45450	B	15169	1	1911	

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15070	45438	A	15157	1	1610	MGLGKSLCILKDAVLALREIKG ISFQYAPNTNRLWGYRQAKQT QHLSGISTLDCPQRYNGDDTGS VWALEPSCMLWACPLVFPSEIY YFISEDVWKHLDAQEKFAAVM GPSRRTSVRAVWKGNGVLEPP HRVPTGALPRVAVKRGPLSSRP QNGRSTYGLHCLKDTPQTQEDW LVSVLPEGSRVGVDP LIIPTALG HGRITFLKVLDFQGPAPCPAA MGVRLMAGPQCVSSDYWKKM AKVLRSAHHILIPKENLVDKI WTD RPERPCKPLLTGLD YTG I SWKDKVADLRLKMAERNVM W F V \ V T A L D E I A W L F N \ L R G S D VEHNPVFFSYAIIRD*ETFMLFI DGD\RIDAPSV\KEHLLLDLGLE AEYRIQVHPYKSILSELKALCA DLSPREKVWVSDKASYA/V*SE TIPKDHRCMPYTPICIAKA\VK NSAESEGM RISDEKSAGNLTED PFYVIDRTLITGVCNSTEKSS LMSVASADTAENLWHLFFHILP SERALTRKLRVLKLGPNYSVQ NPTAQLHQQGPLGVA
15071	45439	A	15158	1	756	
15072	45440	A	15159	1	1677	
15073	45441	A	15160	1220	2620	GPTEPHTGELWLESGGCPSGTK LPEEGTGSNLCCSTASAGDTQA NRVCSGPPTNHSRPAADRPVRR KINKQKTATSTSTKRTSTQRPH PKVTNDHSSSPAREQNWME\N FDELTEVGFRRWVITNSSELKK HVL TQCKEAKNLEKRHSLGTK EPAALKGRTQYWQDSSPADLR PWL CATLLKQYKPTVFSHSTVA VHPRAGFLNLSTVDQHPVLDEP IAEAVCIIADTNKWSVQVATSQ RKVPHNLKLGQDVLVSSQVSSL LQSILQLYKLHLPADFGDILLD NNLKCVFQLGSILPVTFRSHDP YDGE GTDELRTAACSPDTEQLA RQSGTYPVSLGQATVLEDSKA ALPGLGPTLMAVTVTTEAAV DMVVGDRGEERGGTLVAPGTR GLTEEIWFVPVSPSRWWSSHPV VAFITLAKYGTSSPPVFHHGPN IIRHGAQGAASAGDSGSSSRCD RLPCRQNA

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15065	45433	A	15152	2095	2663	LGLGDLPWEINPPSSCSLLREKD PPTTSGPQTYQPKKHLTNFKSA CFERIKACYHSPAKAWPFKAYK LSLQFPHTCLKTRHAI/PS*FSD LCLINQIVLPIHPMVPNPYTLLC SIPPYTMHYSVLQLIRAFFTIPLH P*\PSLY*\VSLGLTLTPIRLSKLP GLHCRKASQTTPTS VKPKFHP HLLPIST
15066	45434	A	15153	678	1189	LGSGDLPWEINPLSSCSLLCEKH PPTTSGPQTDQPKKHLTNFKSE TKETCFIHEPKTLAPVTD*GRQP SLGV*SLQGRPL*SFSHISRVS HAGMPALVLHP*RQVPLFWGR GKYPNPFSPCLLPLLCFSGDRG KYPNPFSPCLYSFSAFLGTGQVP QPLLSLSLPLLCF
15067	45435	A	15154	649	1428	QCISELQFLLASTVRQTPATSPA HKNFQTPELQRPQVPPEPPPTG ACYTCRKSGHWAKECPQPGIPP KA/HLTDSFPDLLSLAAIED*HC PIASEAPETITDAELPVTLTVEA HLHPGEINSHVAHTKPVWWSL HRDAHEIWCCSDRGTSLRRPI PCPPALCSVTKIHLRPQVLRPTS PRNISPISNPAAPHQAELGPNPS/ SSLCSTL*SFYHLPSSHLVWLT VSFRD
15068	45436	A	15155	240	1208	LRSGDLPWEINPLSSCSLLREKD PPTTSGPQTHQPK EHLTNFKSC KQ/DLFLSSPTSLTIPQLSPFN LGATLQSLPSLNFSHFVLVETK ETRFIRGPKTPAPVT/VLGRQPS LGV*SLQRCLSDYTPTFQGCQT TQGRLPWSFTLSGK/CPLFWGR GNTL*KD*SLLSLACYSMGLLN PINSFPSSHFTCPKTRQAVTS* VQDLRLINHIVLLPIHPGGAQPH TLFCPQYRPVVLPIILFVYVKHA FFTIPLQPLIPSLSLPSRLTLTPI RLNKLPGLCCKAFRDSPHYLN QAQISSSVTYLGIIKAHVLSL PIVSDW
15069	45437	A	15156	1174	1623	KFGLVQLTLGKPLPEPELWPK A/HLTDSFPDLLGLAAED*HCPI ASEAPYTITDAELRVTLTVEGK SVPFLINTEATHSTLPSFQGPLSL ASITVVGIDGQASKPLKTPQLW CQLRQYSFKHSFLVIPTCPVPLL G*DTLTKLSASLTIP

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15062	45430	A	15149	303	2028	LGSGDLPWEINPLSSCSLLREKD PPTTSGPQTHQPKHELTNFKSD KGDMFYPTWQTN/YQCRSRTGK AAFPWCLITAGTPL*LYTHVSR VSDHAGMPALVLHP*RQVPLF WGRGKLLLARPS*VPILPQPLLL HPIIFLSPPLLTGPAYSFVL*LA LPHLPSNLLLKRWLEPKA*SSM/ TLKGLKPVITRLLQHGLLKPTN SPYNSPILPVLKPKDPYKLVQD LRLINQIVLPIHPVLGIIGLTSSV RRDAGQDLKRDRAEFLGDEV HHPHRRRIAEEARRLLLQGHD LHRLIGQVLELGEARYAPPVEQ HHRLAPARRTGQRLHPLEQFG QAGRAQRNRLGIEHRDRLDRP DDGAGNALAGDGDFFRGCLFA GIGIRPRYCRYRQSQDDRRPSH AAPRPRALPIHRPATPIADV VMFSVAIMSQLRLVLRHIDGIS RWPPAVVFITDVKIWLVPSPDD CRIRSNDRDDMQGEAPAMSMN AAARVGDPIGHFSFSQGLFGEAL DGLFFARRSEVDMRAGNLGRLI ARGLSGGRWTPADGQTLGSR DVFINGPPATMTIRSTGQCRQH
15063	45431	A	15150	653	1076	RSKYPNLVSLCPSPLFPRPDLLS LWPNPLFLHPNLLYLCAPIPYFH APTSYLCTPTPYFHDPTPFPLFW KELATSARNLATRPRNACSPGF LLSCVPSVRDPTGNRTVQLTW QPLPELELWPKA/HLTDSFPDL LGLAAED*CCPIASESP*TS DILGRDTLLLALKVQTVVLQTACGE GHVAGNCGRPLETEGSLQLTAT KKLRDSVLQPKSPEFCQQFTRA WNRTQVPDETEAPAGTYAAQS GDLWEINPLSSCSLLHEKDPPT ASGPQTDQPKHELTNFKSGFRG VRPRRDACLGPSPLAASPAFLG KGQVPQPLLSVSLPLRLSGGQ ETPNPFSFTLSGKSAFLEEQVPQ PRISVPQSLISTPRPLISVAQSLIS APQPLISLCPNPLFPCPDLLSLHP NPLFPRPNPFAFLEGACYKCQ KSGHQAKECLQGPICKLRPICA GPHWKSDCPTHLAATPRAPGT LAQGS LTDSFPDLLGLAAED
15064	45432	C	15151	234	449	

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15055	45423	A	15142	2	2107	IDMIFTGPPSTPKHKKSQKGS AFTFPSQQSPRNEPYVARPSTSEI EDQSMGKFKVVERQVQDMG KKLDFLVDMMQHMERLQVQ VTEYYPTKGTSSPAEAEKKEDN RYSCLKTHICNYSETGPPEPPYSF HQVTIDKVSPYGFFAHDPVNL RGGPSSGKVQATPPSSATTYVE RPTVLPILTLLDSRVSCHSQADL QGPYSDRISPRQRRSITRDS LTLMSVNHHEELERSPSGFSISQD RDDYVFGPNGGSSWMREKRYL AEGTDTDTDPFTPSGSMPLSST GDGSDSTVPLFLSSEILQKQVG QSITSMGLGFLSRGSPMKLCMGL ACVLSLWNTVSGIKGEAKKEK GMTFLPTTDSKKFFSLSVTSYS SFAFHKFSVAVYNISNLKTVD AKFPTRYCYCLNNRTNDLSDF ALLVDIIGNSTSYLTEIFKSTSIL SVNQSNESDCIFCVMTGKSGR NLSDFWEIEEKYPIINYTFTSGL SGVLALLLTQSLFGGLFTRTRM KFGAVTRIGGPPLGNQSPSSCSL LHEKDPPTSGPQTDQPKKHLT NFKSAARPTFLGQGQVPLNPFS FTLS/EQVLLS*AARTPQSLISTP QPLISVPQSLISVPQPLL YFSGG QEPPPPPLLCVSSLFSLASFTM GAFTHGTQTPSPTKATAPRYPQ TGDLSAEWPFTAGEEPVLVPRP
15056	45424	B	15143	1	930	
15057	45425	B	15144	401	1093	
15058	45426	C	15145	1	843	
15059	45427	A	15146	1	498	
15060	45428	A	15147	112	669	SLQGRSLDYTPTFQGCQTQGC LPWSFTLCSKSRFSGEGETRFR IKACYHSPATAWPFKAYKLSLQ FPHFTCRKTRQALQVSSAPY QPNCFA YPPRGAEPHSPILNTS LHNPLFCSGSQTCFLY/SFLCTL HPSLSSLGLTLTPIRLSKLPGL YCLKSSQTAPITSVKPKFLPHLL PISA
15061	45429	A	15148	957	1100	

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15054	45422	A	15141	1	1340	CSEYEDSSPAPVPATDLSSTLSS SVPQPQDTGTSQQLHPLDPWHE LLRAQELQGATNHKGYSHAEH EHAGLG VQGGNGALAFSNSGH RHAVPTISSGTGRRRTPSSSAFG LLNLHQWFVSGFQAFSDRLKA ALSASLLLRFGSDWLPSSSAC KCLMLGLHFVIVGNICATLKEK YSSMLHLDVTMKNKEKRTRL QKRKKGMPPHPAYEDLNIAAIT LPANVV LHQPSGFRTSGQLDPV WWSLDTDAHEIWCQDPGLGSG DFPWEITPLSSYSLLHEKDPPTT SGPQTDQPKKHLTNFKSKTKET GFIHGPKTPAPVTDWEGSLPLV FNHSGTPL*LFTHVSRVSDHAG MPALVLHP*RQVPLFWRRGKI* LTSPSRCTIIEKSCNSLPPL*DKP QPHLQHTRTSKCLNRSGQAF/L PEPPPTG/CLLHVPEIWPLGQGM PAARDSS

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15046	45414	A	15133	245	1033	TALLLTQSLFGGLFTQTRMKFG AVTRIGGPPLGDQSPVLLFFVPR ERSTYDLGPQTDQPKKHLTNFK STSFVFSSCIPPP*PSSISLLPPW/T TDHAPLTISL/TT*SPLPCSMPI/ ASHSML*KD*SLLSLACYSMAF *SL*TLLTIPPFYLS*NQRRFTG* FRICALSTKLFCLSTPWCQTHIL SYPQYLPPQSILFWISNVLSLLF LCTLHPSLSSLSLGLTLTPFRLS KLPGLYCRKASQTAPITSVKPK FLPYLLPISA
15047	45415	B	15134	146	556	
15048	45416	A	15135	1	555	LTSFLHCCLSHHYHGAQIHPRH FLHLICRCHCHQYCHHAYLDPC PQDSHHLHWCWQPLPELELRP KA/HLTDSFPDLLGLAAED*HCP IASEAALPPCFPRPDIMITSLQL QRRRQTALGVRYRNATYRTRT ASTNSLRPRGSPFPLALVTNDR QVRSQALWKRDRLLQLSPINR AIESSFT
15049	45417	B	15136	1	555	
15050	45418	B	15137	499	769	
15051	45419	A	15138	752	1111	MQPTIGNSQSVSRPTA*MPLAE SHPITQLVGTVTTPRVTPLSIRH PWRCRSANAGAMILTMKQLAI VMRVYQHQVRRSMRPGRNGA RSGMSAVGAYYSSCIRVMTAL QSCTGDDEAVLL
15052	45420	C	15139	1	632	
15053	45421	A	15140	1	375	PGVRGAQGGPSIPRQCEESAIGP KFAWIISFHWKQGMFNMEAP SSLFFVNMCAVKKQTTWGRPD RGIWQPLPELELWPKA/HLTD SFPDLLGLAAED*HCPIASEAPA LVYTAGLHCFKPSQ

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15032	45400	A	15119	144	298	WQVPLFWQPFPEPELELWPKA/HLTDSFPDLLGLAAED*RCPIASEAPCTQVI
15033	45401	A	15120	449	667	
15034	45402	A	15121	2	111	
15035	45403	A	15122	323	401	LLLGLAAED*RCWIASEAL*TITDAK
15036	45404	A	15123	2	593	CTLPSH*NLITLTPLNANIPSHGML*KD*SLLSLACYSTAF*GL*TPLTIPPFYLFKNQTRLTG*FRICPLSTKLFCLSTPWCQTHILSYPPYLPPQPIFLFWISNMLSLLFLCTLYPSLSSLSLGLTLTPIRLSKLPGPYCRKPSQTAPTSNHPSSFSGSWYSVETSYPLSSSIFRKGRDTSWSLKDTPHQAQPPT
15037	45405	A	15124	354	630	
15038	45406	A	15125	29	354	RFLVSLMLPPAVVMLNHCYSLI FTNALVKRLFAWNMLSELATCAGNLATGPRNARSPGFLLSVPSVRDPTGNQTVQLTWQPLPELELWPKA/HLTDSFPDLLGLAAE
15039	45407	C	15126	1	576	
15040	45408	A	15127	377	624	RDQLQCLQLWDAGACYTCWK SATGPRNAHSTVFLLSHVPSVW DPTENRTVHLTWQPLPEPELELWPKA/HLTDSFPDLLGLAAED
15041	45409	C	15128	1	462	
15042	45410	A	15129	44	340	PCQTTQGRLLTAGTPL*SFTHVSRVSDHAGTPALVLHP*RQVPLFWGRGNHISGTQELPNT*TAV/VQAF/LPEPPPTG/CLLHVPEIWPLGQGMPAGQDSS
15043	45411	A	15130	242	522	RLVWPTATQRAWSQSEAAAAK TVDLALSARNSATGPRNACSPG FLLSCAPSVWDFTGNRTVQLTRQPLPEPELELWPKA/HLTDSFPDLLGLVTED
15044	45412	B	15131	1	1080	
15045	45413	A	15132	1	642	

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15023	45391	A	15110	1	1194	MGFLHLGQAGLEFLTSGSSTDI SEDWEKDFDLDMTEEEVQMAL SKVDASGEPCFCWKGYPPGGEL ETLIRLLQKLFFLKTDPAFVLSP STLVKLHLWGNEGLQESLESLV LHDAALVILVPNLEKKGEISELL VGSPSIRALYTKMVPAAVSHSE FWHRYFYKVHGLEQEQARRA RLKQRAEQSISEEPGWEEEEEE LMGISPISPKEAKVPVAKISTFPE GRTLAPQSPCEENLVTSVEPPA EVTPSESSESIPKSPLPTRALGTD
15024	45392	A	15111	213	1031	AGNKPDPWAGRNRATAVLPDVS VFHREDVGWWRSLQQSYQA VKEKSSEALEFMKRDLTFTQV VQHDTVCTIAATASVVKEKLA TEGSSGATEKMKKGLSDFLGI SDTFAPSPDKTI*RDVITLMGTP SGTAEPYDGTAKARLYSLQADP ATLLY*PDGPPELFDALWSQFC LEKKGEISELLVGSPSIRALYT KMVPAAVSHSEFWHRYFYKVH QLEQEQAPRDALKQRAEQSIFE EPGWEEEEELMGILPIFPKEAK FPLAKISYIP
15025	45393	C	15112	414	557	
15026	45394	A	15113	98	467	
15027	45395	A	15114	1	155	
15028	45396	A	15115	16	94	RCPIASEASWTITD*RCPIASEAS WTITDALGNSYSGGMAF
15029	45397	A	15116	95	115	IIRHLCND*TPREGCLPSP*PAW SDTFETWVNNQASLQ
15030	45398	A	15117	3	282	LKPVITCLLQLGLLKPINSPYNS PTLPVQKPDPRPYSKPNSLP*LNP SLLQRNYTSIFLLTLNMPISICT TMLLYGQKEISSLHKGPPLMP
15031	45399	A	15118	548	1401	SCTPCWHLTGRLWGITA VRQK RHVLSVDPKLRHQSR TGKA AFP WCLIIAGTPL*LYTHVSRVSDH AGMPALVLHPLQQVPLFWGRG NTL*KD*SLLSLAC/VQHGLLK PINSPYNSPILPVVKPDKPYKL VQNLRLINQIVLPIHPVGEAPV PLETGGKSGKDCILWFECHLSHNTI EHQVSSSTFRIVVATGVLVSLH PQLYMAQNRERHAEC LGESKG REQESLSGNPENS RFSLLTSRRY LYKSTRTIVLLGLAGPLKQKKL RSQHPSLYKYLQSF RNKDSYR

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15016	45384	A	15103	84	303	EEQELPSLSVPSCLWGPCPRAG WLHSLHWPVSHSFSATSTFGM AIWT*SLASGIKQSSSKVSSRIQ VPPTM
15017	45385	B	15104	112	462	
15018	45386	A	15105	326	1323	DRKAINLQVKLEGAVAL*KPG EAQLEFGKALGLFQ\STLGHFF VNNKEKILGDFQEATLQAATK LTRGRSLVMENMEQLLSMRME DQSQRNMPLSVVLIREKAHSPF ENRKQEQGEGASPENFRARIQG *FLAFKAAPPA*AASGPAAQER SVQEPSVNAPG*IPEGGLHTLA GVHHE*ALAWCSPLNKPRFLW KRLP/SRTFHFPEDESAPGSKP SGDLLTLLGGNAAGDFKLK\P CLVYPSENPCFLKGSFKPNLPL VWCSHKKA WVQPG*QSETPFQ KKKKKKKKKA WVTMSLFQEW LHFCSTVE/ARCTQYDLPYKGL PILDSTPGHPGC
15019	45387	A	15106	3	375	HASAHASGLQQSYQAVKEKSS EAEFMKRDLTEFTQVVQHDT ACTIAATASVVKEKLATEGSSG ATEKMKKGLSDFLGVISDTFAP SPDKTSTAMSSPYDGTKARLY SLQSDPATYCNEPDGPP
15020	45388	A	15107	184	377	YCTNNQKVN*TKEITKRKTPSR QKKDSAFSPSHPLTEGLKWND LTLVSLTHDGFVWRRGKGV
15021	45389	A	15108	3	816	SWEDVGWWSWLQQSYQAVK EKSSEAEFMKRDLTEFTQVVQ HDTACTIAATASVVKEKLAIAA CSRGACFLCPFSIQTEGSSGATE KMKKGLSDFLGVISDTFAPSPD KTIDCDVITLMGTPSGPAEPYD GTKARLYSLQSDPATYCNEPDG PPELFDWLSQFCLEEKKGISE LLVGSPSIRALYTKMVPAAVSH SE/TFWHR\YFYKVHQLEQEQA RRDALKQRA/VSGDSCT*SGVL TNE*KGSWVRDTERVRSPLQT FSEGVGWREC
15022	45390	A	15109	1	281	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
15008	45376	A	15095	16	545	GLPWRQHVRVEECGRS/PLRPC SPGTPSPS*PLPAATRGPATCQS LSGLQPEKTT/SPS/CAAVAHER PPGPVPQCPAQGTGLIF*EGWT QPQQIRQGGHPVAHE\CAHDLO QAAPGPGGAHQG/PSQPG*PDR QPDARA VVHPGAQ*DAEIQPG LPGEGGPLATRTERSPAQRPS QARG
15009	45377	A	15096	320	1167	MDLKTAVFNPARDGKLRLTLK *MASKSKEEVSSLISEKTNGAT PLLMAARYGHLDMEFLLEQC SASIEVGGSVNFGETIEGAPPL WAASAAGHLKVVSLLNHGAS VNNTTLTNSTPLRAACFDGHE IVKYLVEHKADLEVSNRHGHT CLMISCYKGHKEIAQYLLEKG ADVNRKSVKGNTALHDCAESG SLDIMKMLLMYCAKMEKDG GMTPLLSASVTGHTNIVDFLTH HAQTSKTERJNALELLGATLFT QKEISCDESGRTRDLSRRKPPH
15010	45378	A	15097	187	623	KLKTQKNNIGPQACNSQLASVS TRSPPTLSVPIIMTDDSQASQL LLAAVTIRKLWSRMAPMLALP TGQSGQTGAEGQGKEGERGQS PCWKPRLDPKLC/EPRQPAQLL* ADVCTGP/CGVRGCPADCRLPC LSPSSAQPKASRSA
15011	45379	A	15098	789	1041	
15012	45380	A	15099	707	1373	SAWPSCHCCHLDILSR/PGDDA CSVQILVPGLKGDAGEKGDGK APGRPGRVGPTGEKGEKGDSG DIGPPGPNGEPLPCECSQLRK AIGEMDNQVSQLTSELKFIKNA VAGVRETESKIYLLVKEEKPYA DPPLSWQGRGGLSMAQDEAV HGLKGAYLGQARLGRGFIGIHR PWKRRAPLLLF*TLSPLRSF*KG DGGGNTQKGSRRKRELQGIW GPCIRR
15013	45381	A	15100	79	420	WRRFLFLGLVFRGYLGCLRSRS VLGRLKVSDMRIFFFACGCGHL STLPSWPLRPSLWLRL*EEQELP SLSVSSGRSASRL*LGWRGF GPSPSPRLTVQFSGGRRQAQGPS
15014	45382	A	15101	3	284	
15015	45383	C	15102	83	112	

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15001	45369	A	15088	216	1369	EPVLRRRPRQPRAGAQGFPVFS PPGPPRKPPALSRVSRMFSVAH PAAKVPQPERLDLVYTALKRG L/QAYLEVHQEQ/DKLQGGQIR ESKRNSRLVMAGGVLWTVV*E RGAVTSLASAGVLLIPPKYLPL LPTPAGL\LYDLKQVKSIERFL/ RRLEFHASKVRVQHVCRWD\D ELYEAYCVQRRLRDGAYNMV RAYTTGSPGSRREARDSLAEATR GHREYTE/DEGWGPMRQRHRS MCLLES/ELEAQLGEFHLRMKG CAVDINDLGTIKLSLEVTGAAS SVNKASTVTKRSPPIARAHRT PHFGNSFLSTRKPNTYTANHRR RPIEQHPDMRTPPPPHRARTNT GRKDKVRAHEGEKATPTRTRG APHGKAQRLRPLYQYVTIATLS
15002	45370	A	15089	1	940	MSYNSKNYVETITTMNSVKFG ETTPRNRTHYLSTNEKKIFLSGV FSNAYPAGLSRGWDSPWGSTP WVRHFCYLSSTQLCDQNCILLS SLLPAGPSVCNRLLASAWQKSS SSASSEASETCQSVSECSSPTSD WSKVGSHEQPSGATLQRRKDR VE\PCETQSPGPASGGTLGPSGE EAPRPRMSPATIAAKHGEEVSP AASDLAMVLTRGMSL*HQKSS RDSLQYSSGYSTQTTTPSCSED IPSQGRPAGLGPTKPVSIESTYL QSPQRLKQEWATEGKIQLPPQ IQVVNFQVDSSPSLPLIMVPEH MHVS
15003	45371	B	15090	1	777	
15004	45372	A	15091	26	336	KISPMINVFCSESSPSGERRGA* TPPSPQSPPCGPKPSS\PPSCSPSR NYFLLFQGLCAEHPALAAPAAS VGTCPSPASGTHAAAPSGPWGR RCVHSGPGGRLW
15005	45373	C	15092	46	423	
15006	45374	A	15093	1773	2219	ELDYLCSNSSAQCPGALLPSL ALPGPAGSARQAGSPARRLCAP VQPSGRWPAPGGPGFPGSSCPA SPTRQ*LLTSGSGCPRPCHHPSG PPQ*QSTQAWDWVILGPGAHG PSGQRCERCLPSRSPGPQTHSG VGSEPRAVRGPVSVFV
15007	45375	B	15094	1	7916	

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14993	45361	A	15080	602	1257	FGKRGRITLCLAVGMLCCRK GHTKPRRRPGASPISTHLHSSPPI STHLHTSPPPHRREEARISGQ*R QSCGAAAAR*PWWWNC DGWG PKCQRFSKH*DIAQPDEVSWGQ *PWAVGALAGPHP\PQASEGPL GCTPASICGSTRKPSKPLSKKPP QAARTSSSRVIFTPISTRPPTQG QPEKAKSATPTNDLEGPSAKVK FVNFLMDETFPEPSFFFI
14994	45362	C	15081	140	175	
14995	45363	A	15082	2295	3089	NLLGYQEINPPLQIFWDKLLAV SERDSSVKEESGDVESDDTML* MLPCP*ETTEFSS*PFRISS*LSS* STAQ\PAETCFAGGWYSIFCPQ RIEQETMCLL*SWQSEVAVSCE SPWPTALHHSHPNRAPPICY/S KSTSSSLSSPLENSG*QNRPPSLL ITSVLPLRITCLP*VSFIPPIMQLG GSFLSNDRL*QSFILPKNVSLF VSFPLI*GAVSKPAISFNTSVSPL LVSDIFFALSLLP*GLGTWLIPSS SSLLLVRGF
14996	45364	B	15083	143	1727	
14997	45365	B	15084	307	1017	
14998	45366	A	15085	1	959	MSRMGLLGFGERKELPNHPAV SEWPLTLVTGCSSGTVAEGEGN LTTSGLFSIVPLHPDGVAAGQR HSSLPRWGSQAEALLTSQTVDG QAEMLLTPQTMGGQEEMLLTS QTTGEDFITRSTESGTHSKSHKG DEGEPRWMLGWMLWVCDIAE PLVKAKLLDCKHTCCSVCLQQ TRTSQKDVRCPWCSGVTKLPPD FSVSQQLDDPEVLAVITIPHASE HMPVFIRLPGSGCY\SCPCSPRS TRCCPEI*AATCCPGTGRSPSL\C DHPCWTAASARQSGPGGGGGG AGQAGHGEKLVHVEGVHCHL GGLRLGLPPQHRAP
14999	45367	B	15086	112	672	
15000	45368	A	15087	2	530	SGRSAALLSARVNRSQSFAGVL GSHERGPRSFVFPSPGPPRKPP ALSRVSRMFSVAHPAAKVPQPE RLDLVY\TALKRGPDGLLGAVH QQEQEKLGQGIRESKRNS/RLG EWREGFLYDLKQVKSIERFLR RLEFHASKIDELYE\A\YCVQ\RR LR\DGALHMG\RAYTTGSPGSR

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14982	45350	A	15069	383	756	LNPSNKLALINPAASPIIKGVDL TANQI/PCIADIPLYDADVQQE* CFPATVEALGEQIRQADGVVIV TPEYNYSVPGGLKNAIYWLSRL RQILVFLDAMVMNKPEFMGGV IQNKVDPQTGKVIDH
14983	45351	A	15070	343	924	
14984	45352	A	15071	223	308	
14985	45353	A	15072	57	5546	NKMARKKFSGLEISLIVLFVIVT IIAIALIVVLATKTPAVDEISDST STPATTRVTTNPSDSGKCPNVL NDPVNVRINCIPEQFPTEGICAQ RGCCWRPWNDLIPWCFFVDN HGYNVQDMTTTSIGVEAKLNRI PSPTLFGNDINSVLFTTQNQTPN RFRFKITDPNNRRYEVPHQYVK EFTGPTVSDTLYDVKVAQNPFS IQVIRKSNGKTLFDTSIGPLVYS DQYLQISARLPDYIYGIGEQVH KRFRHDL
14986	45354	C	15073	1	1818	
14987	45355	A	15074	493	576	
14988	45356	A	15075	381	498	
14989	45357	A	15076	48	514	LLLFULLQSYDWSESGKRQSAL HGRQKGLPKSPTAARGGSDPW PSCRHP*GPNRKRKRS/R*PMET APRRPSVSPALTPARPPGLTATP RLHPRPP/RSPNPSANLLRRPTP DT*AHATFGPGRSRHHFPGQLS TE/RRRSAEGGRSRRNEASRRE GGE
14990	45358	B	15077	1	1116	
14991	45359	C	15078	249	332	
14992	45360	A	15079	710	1326	RAAGNCFPEPGFVKQLSAAAA VVAPAAAATEGSIPDTGKSPSSI SHWPNPQKNVICKRRGRVEQE QAWKGR*RVVFGL*KSMRCP VDLLPQSCLCQRFLHQ/GKWIL TKDYIIHSAKSGRWLDATTYE WGYKIEKDSRYSPQMMSAPKR WREELKRTGAPGAFHRWKVVL LVRTDKRSDSLIRFSDNFGDCDI RMEEKTFRTLMS

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14977	45345	A	15064	1	1496	SGGCAGLHGGGLCSKEPFQASV QQGVAGHACAPAAALQVPVCGT LSDCGSRAASLCENPSFISLYGR LVATSLAKLPIPKLMRWGASD VHFVRPVHTVTLALGDKVIPAT ILGIQSDRVIRGHRFMGEPEFTI DNADQYPEILRERGVADIYEE RKAKIKADAEEAARKIGGNAD AKFEEKFLAVPAEALVYTMKG DQKYFPVYANDGKLLPNFIFVA NIESKDPQQI/DRIQALAGWIAE Q\IGADVNHATRAGLLSKCDLM TNMVFEFTDTQGVMMGHYAR HDGEAEDVAVALNEQYQPRFA GDDLPSNPVACALAIADKMDT LAGIFGIGQHPKGDKDPFALRR AALGVLR\IIVEKNLNLDLQTLT EEAVRLYGDKLTNANVDDVI DFMLGRFRAWYQDEGYTVDTI QAVLARRPTRPADFDDWHALG RAGTGDVVVGVRGR\LAIVPLT DGLDEAGHSTGVLQGEVPQRL ERAATVPGVTLPQALQARGL
14978	45346	A	15065	134	384	VTPTGWRKRRIRQWCSAGCG VNALSGLRFSHSLALFSAAMFI LGVVSGITMSISP*ILSCVRSKNP LLVSGSGPLSCNSTIH
14979	45347	A	15066	1	723	TKSPKIARSRHIPLCHFIFERRPI MTNSNRIKLTWISFLSYALTGA LVIVPGMV MENIADYFNLPVSS MSNTFTFLNAGILISIFLNAWLM EIVPLKTQLRFGFLMVLPVAG LMFSHSLALFSAAMFILGVVSGI TMSIGTFLVTQMYEGRQRGYR LFLAASLFMAGMIFPMIAAFL LAPSS*W*WVYACGLAYVTIF IMTFGCEFPALGKHAPKSYAPV EKVKWGILGGASSFRAV
14980	45348	A	15067	422	1045	LLEGKLTNRKQ*HQH*QKARPC KKPIQSAQN/WNREEYDELTEV GRRWVIITNSFELKEHVLTQWK EAKNLDKRLQEGLTRITSLEKKI NDLMVLKNTARELHEAYTSINS RIDQAEERISEIEDQLNEIKLED KIRGKRJK/RQTNKQSL*KMWD YVKRPNLRLIGVPESDEENVTE LENTLQDIIQENFPN\ARQANIQ IQEIQTLLR
14981	45349	A	15068	1	1131	

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14973	45341	A	15060	1	5621	MSEKTFLVEIGTEELPPKALRSL AESFAANFTAELDNAGLAHGT VQWFAAPRRLALKVANLAEAQ PDREIEKRGPAIAQAFDAEGKPS KAAEGWARGCGITVDQAERLT TDKGEWLLYRAHVKGEGTEA LLPNMVASSVAKLPIPKLMRW GASDVHFVRPVHTVTLLLGDK VIPATILGIQSDRVIRGHRFMGE PEFTIDNADQYPEILRERGVIA DYEERKAKIKADAEEAARKIGA KAWGTNVEFHVQNQP
14974	45342	A	15061	82	732	
14975	45343	A	15062	1	3849	MDLGANGWQTFRYVVLNLS ALLAGGMLAFALSFDIIVTTFT AEQVDAAVRAADAFAEWGQ TTPKVRAECLLKLADVIEENGQ VFAELESSNNTAFARASSNGDL PTKADLQAQLDSL NKQKDL SA QDKLVQQDLTDTLATLDKIDRI KEETVQLRQKVAEAPKMRQA TAALTALSDVDNDEETR KILST LSLRQLETRVAQALDDLQNAQ NDLASYNSQLVSLQTQPERVQ NAMYNASQQLQQIRSRLDG
14976	45344	A	15063	219	1186	PPKLGRKRGIFLPSHSNPNTNRI CPNCCMNGVSTANTTSKSSLVI CAWTKHALLNAILQPEQLWKS GSRWRINLALPRGYRESLLQPW QAERLTDDKGEWLLY/RAHVK GESTEALLPNMV/ATSLAKLPI KLMRWG/ASDVHFVRPVHTVT LL/LGDKVIPATILGIQSDRVIAA TGKAKIKADAEEAAR/KIGGNA DLSESLLEEV/ASLVEWPVVLN AKFDEK/FLAVPAEALVYTMKG DQ/KYFPVYANDGK/LLPNFI/F/ VANIESKDP/Q/QIISGNEKSFVR LADAEFFF/NTT*KRLFLPHQKL PPSQILHQQTRNYASFCHRRD NWTSA

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14969	45337	A	15056	356	1205	APASMTFEQFVREFA/VMVFTK RPAAMMIGIRADESYTVLSPSP V*INNVLPTITWTFPQTIYDFLW LIGEAIFF/YLPVGICWSAVKKM GGTRSLVSCL/AVTLVSPQL/MN AYLLGQQLPEVWDFG/VCSLIL/ AVFLAHALIGPFGRMI/GDGVA FAVRHLMTGSA/PIGAALFGFL YAPLVIT/GVHQTTLAIDLLMM QSMGGTPVWPLIALSNIAQGSA VIGIISSRKHNEREIPGEVFPRT GVGKGKSLG*PLH*LQPYRQHL GAGSYSQTLKKQIAESA VRLSIP
14970	45338	B	15057	1	435	
14971	45339	A	15058	2	1785	WLLYRAHVKG/STEALLPNM VATSLAKLPIPKLMRWGATYV HFVRPVHTVTLGLGDKVIPATIL GIQSDRVIRGHRFMGEPEFTIDN ADQYPEILRDSGKVIADYEERK AKIKADAEAAARKIGNADLSE TLLEEVASLVEWPVVL/TAKF/E EKF/LAISRTALVPYSADNMYQ LVNDVQSYQPFLPGCTGSRILES TPGQMTAAVDVSKAGISKFTT RNQLTSNQSILMNLVDGPFKKL IGGWKFTPLSQEACRIEFHLD FTNKLIELAFGRVFKELAAANMV QAFTVRAKEVYSASMRYIYVIV YISYRPPNLLDSHIIGFSSITTHC AVTSHHYNSCDMTMTIHSYVT PYISVRVSLTQTYAPSPSRNLRI TDLTIYRAISSEKSIDDTRHIHTI ESRCRVCGAHDSDAERLDRF AQTADEIRJADRGFSSRPECIRS LAFGEADYIVRVHWRGLRWLT AEGMRFDMMGFLRGLDCALIS KTRLLSENRRKGRVVQAETLE AAGHVLLLTSLPEDEYSAEQVA DCYRLRWQIELAFKRLKSLHL DALRAKEPELAKVGIFANLLAA FLIDDIQPSLDFPPRSAGSEKKN
14972	45340	A	15059	1	993	

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14964	45332	A	15051	361	837	DGQQIALHRLALRELQQAVH AGLPQQAKILFDGGSEIGKIPSEI YFCQLVKLILCPVLFPWRRVA ILWRRRDVLFSGSFSFSA LVSPH LCG/SYLPFVFDVGDRL*LSVG WS\KEIWPC*KFGHLM SVLNT PMKSLVEGFKHFPLAGFGYEYL SFFCR
14965	45333	A	15052	1563	1652	
14966	45334	A	15053	2756	2995	AMRSAHRCTVFSALLNCWQITP HLTPSVMICGQLLTVNRC*PSS TIFSIPLSKQVARMFRSAMSPL NRARCWKVPCN
14967	45335	A	15054	762	2184	WRAVPSEPISFILKADTEKYVY L*NSSSAQYSGSCTRAYYLDLTQ HPTPRLCLIFGGKDSGLMLHLT AELARQMGGKICVLFDWEAQ FSCTINYVQSLRELYTDVIEEFY WDALPLTTQNSLSQYQPEWQC WEPDVEWVRQPPQDAITDPDF CFYQPGMTFEQFVREFAEWFSQ KRPAAMMIGIRADESYNRFVAI ASLNKQRFADDKPWTTAAPGG HSWYIYPIYDWKVADIWTWYA NHQSLCNPLYNL MYQAGVPLR HMRICEPFGPEQRQGLWLYHVI EPDRWAAIGSPADREEDAE EYL EAIMEARVTVAGMGLVMEVQ DYFDGEADRLAKAWLA EYTPQ IKSLKDERKEAYRQIVEMSTEP QDVDLVRPANKFEMTRVREGE KEADLPVWKHLLCDESGNYP ALLNHWETKVFEIETKREGFAF WYRNPQYTGQSSLGIAYVEAE QYKIVRPDLFFAEQDGKMVV
14968	45336	A	15055	2069	2586	PWLENLPVGICWSAVKKMGGT RSLVSCL/AVTLVSPQLMNA YL LGQQLPEVWDFGMFSIAKVG Y QAQVIPALYL VVVPVCSLILAV FLAHALIGPFGRMIGDGVAF AV RHLMTGSFAPIGAALFGFLYAP LVITGVHQTTLAIDLQMIQSIGC TPVLPVNALSNI DLWHISILV

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14953	45321	B	15040	1	4534	
14954	45322	B	15041	1	1826	
14955	45323	B	15042	1	1626	
14956	45324	A	15043	248	1212	NSKHYSRGQKKKLPTLPRAAN SRWRSLKI/GFTVSFDETLKPFV RDVSGSRLKDLPKPNKSDDETR ANDAVNRYKLLKKDARTIAAQ QVARLESAMCLRRRWLENFQ LFLVEHPLVRHLTRRLIWGVYS AENQLLACFRVAEDNSSSTADD DLFTLPEGDISIGTPHVLEISPTD AAALLFADYELLPPFRQLDRNS YALTEAERNASELTRWAGRKC PSGRVMGLANKGWIKGEPQDG GWIGWMIKPLGRWSLIMEIDEG FAVGMSPAELSAEQLLSKLWL WEGKAERYGWGSNSTQEAQFS VIDAITASELINDIEALFE
14957	45325	A	15044	1	1788	
14958	45326	A	15045	1	3048	
14959	45327	A	15046	1	3546	
14960	45328	A	15047	969	1205	SPVRCCISAVHRTYHRRTSALL RLAELHRLLEKCASRQWMYEN I*SPFRQIA*CLPYSDHKNQRLH GLDSIFLARLLW
14961	45329	A	15048	877	1248	WPLTVPYCGVGYAS*A*VADN HRAVGYSRWAGRKCPSGRV MG/LANKGWIKGEPQDGGWI/G WMIKPLGRWSLIMEI/DEGFAV GMSPAELSAEQ/LLSKLWLWEG KAERYG/WGSNSTQEAQFSVID
14962	45330	A	15049	854	1313	DHGVASAATCVYTNEGHRQSY VRVCEYASRTRVSHHCSV*RVL RCEAIRIVSPDRSC*RDPEFSYL ALPENYNRLFLPNSTNQTNRI KTLNSIAIGKLLAAGGVYNGNI EGFRDTAEKLDGRTIDGYDQIL NEKTAVIAKATAISILLTKRS
14963	45331	A	15050	1010	1396	KPFGKLTYKLFEGHAWLVKAE KVRVG YRILGR LTYPFDIRFPAL PFGLVL*KGAHFTVPRIWAGHA C*LMPMALPMFRWKVTGLLFIP ICLVKPSFLTITIIAIRRISTSTN CRKTPKQPSRWCKPR

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14946	45314	A	15033	965	5928	TWKGTTSTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDIY RTLHTKSTEY/TFFSAPHHTYSK IDHIVGSKALLSKCKRTEIITNY LSDHSAIKLELRIKNLNQSRSTT WKLNNLLLNNDYWVHNEMKAE IKMFFETNENKDDTTYQNLWDA FKAVCRGKFIALNAHKRKQERS KIDTLTSQLEKEKQEETHSKA SRRQEITKIRAELEIETQKTLQ KINESRSWFFERINKIDRPLARLI KKKREENQID
14947	45315	A	15034	383	8708	
14948	45316	A	15035	2	3257	WRKIYQANGKQKKAGVAILV/S DKTDFKPTKIKRDKEGHYIMVK GSIQQEELTILNIYAPNTGAPRFI KQVLSDLQRDLDSHTLIMGDFN TPLSTLDRLMRQKVNKDTQEL NSALHQVDLIDIYRTLHPKSTE YTFFSAPHHTYSKIDHILGSKAL LSKCKRTEIITNYLSDHSAIKLE LRJKNLTQSRSTTWKLNNLLLN DYWVHNEMKAEIKMFFETNEN KDDTTYQNLWDAFKAVCRGKFI ALNAYKRKQERS
14949	45317	A	15036	1	3508	MELKTKARELREECRSLRSPCN QLEERVSAMEDEMNMKREG KFRDKRIKRNEQSLQEIWDFVK RPNLRLIGVPESDGENGTKLEN TLQDIIQENFPNLARQANIQIEI QRTQPQRYSSRRATPRHIIVRFTK VEMKEKMLRAAREKAPHHTYS KIDHILGSKVLLSKCKRTEIITN YLSHSAIKLELRIKNLTQNHST TWKLNSLLLNNDYWVHNEMKA EIKMFFETNENKDDTTYQNLWD TFKAVCRGKFIALN
14950	45318	B	15037	1	4760	
14951	45319	A	15038	1	3110	
14952	45320	A	15039	1	5546	MELKTKARELREECRSLRSRRN QLEERVSAMEDEMNMKREG KFREKRIKRNEQSLQEIWDYVK RPNLRLIGVPESDAENGTKLEN TLQDIIQEDFPNLARQANVQIE IQRTQPQRYSSRRATPRHIIVRFT KVEMKQKMLRAAREKDFKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFIKQVLSDL QRDLDSHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTE

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14939	45307	A	15026	1	2053	MKAEIKMFFETNKNKDDTTYQN LWDAFKAVCRGKFIALNAHKR KQERSKIDTLTSQLEKEKQEQ THSKASRRQEITKIRAELKEIET QKTLQKINESRSWFFERINKIDR PLARLLKKKREKNQIDAINKNDK GDITTDPTIEIQTIREYYKHLA NKLENLEEMDKFLDTYTLPRLN QEEVESLNRPIGAEIVAIINSLP TKK\SPGPDGFTAELYQRYKEG AVLEVLARAIRQEKEIKGIQLG KEEVKLSLFAQDMIVYLENPIV SAQNLLKLISNFSKVSGYKINV QKSQAFLYTNNRQTESQIMSEL PFTIASKRIKYLGIQLTRDVKDL FKENYKPLLNEIKEDTNKWKN PCSWVGRINIVKMAILPKVIYGF NAPIKLPMTFFTELEK\TT*KFI WNQKRARIK*ILSQKNKAGGI TLPDFKLYYKATVTKTAWYW YQNRDIDQWSRTEPSEIMPHIY NYLIFDKPDKNKKWGKDSL KWCRENWLAICRKLKLDPFLTP YTKINSRWIKDLNVRPKTITTE EKLSTIQDIGMGKDSMSKTPK AMATNVKIQKWDLIKLSFCT AKETTIRVNRQPTTWEKIFATY SSDKGLISRIYNELKQIYKKKT NPIKKWVKDMNRHFSKEDIYA AKKHMKKCSPSLAIREMQIKTT MRYHLTPVRMAIHKSGNNRC
14940	45308	A	15027	3	3229	
14941	45309	A	15028	1	3907	MGDFNTPLSTLDRA TRQKV DTQELNSALHQADLIDYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNL TQNR SITWKL SN LLLNDY WVNEMKADIKMFFE TNENKDDTTYQNLWDTFKAVCR GKFLALNAHKKKQERSKIDTLT SQLKELEKQEQTHSKASRRQE ITKIGAELEIETQKTLQKINES RSWFFERINKIDKPLARLIK KKREKNQIDAINKNDK
14942	45310	A	15029	1	4005	
14943	45311	A	15030	287	2708	
14944	45312	A	15031	1	4602	
14945	45313	A	15032	1	4806	

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14933	45301	A	15020	1	2229	MGKKQNRKTGNSKTQSASPPP KERSSSPA TEQSWMENDFDEL R EEGFRRSNYSELREDIQTGKE VQNFENLEECITRITNTEKCLK ELMELKTKARELREECRSLRSR CDQLEERV SAMEDEMNEMKRE GKFREKRIKRNEQSLQEIW DYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLARQANVQI QEIQRTPQRYSSRRATPRHII VR FTKVEMKEKMLRAAREKEIQT TIREYYKHL YANKLENLEEMD TFLD TYTL PRLNQEEVESLNRPI TGSEIVAIINSLPTKKSPGPDGFT AEFYQRYKEELVPFL LKLFQSIE KEGILPNSFYEASII LIPKPGRDT TKKENFRPISLMNIDAKILNKIL ANRIQQHIKKLIHHDQVGFI PG MQGWFNIRKSINVIQHINRAKD KNHMIISIDA EKA FDKIQQPFML KTLNKL GIDGTYFKIIRAIYDKP TANIILNGQKLEAFPLKTGTRQ GCPLSPLLFNIVLEV LARAI RQE KEIKGIQLGKEEVKLSLFADDM IVYLENPIVSAQNLLKLISNFSK VSGYKINVQKSQAFLYTNNRQ TESQIMGELPFTIASKRIKYLGIQ LIRDVKDLFKENYKPLLKEIKE DTNKWKNIPCSWVGRINIVKM AILPKIGKTTLKF IWNKKSRIAK SILSQKN/KAGGITLLTQLYYKA TVTKTAWYWYQNRDIDQWNR
14934	45302	A	15021	1	960	
14935	45303	A	15022	1	2928	MEDEM NEMKQEEKFREKRIKR NEQTLQEIW DYVKRPNLHLIGV PESDGENGTKLENTLQDIIQENF PNLARQANVQIQEIQRMPQRYS SRRATPRHII VRFTKVEMKEKM LRAAREKDRSMRQKVNKDTQE LNSALHQADLIDIYRTLHPKSTE YTFFSAPHHTYTKIDHILGSKAL LRKCKRTEIITNYLS D HSAIKLE LRIKNLTQNRSTTWKLNNLLN DYWVHNKMKAEIKMFFETNEN KDTTYQNLWDAF
14936	45304	A	15023	1	1782	
14937	45305	A	15024	1	4881	
14938	45306	B	15025	1	5962	

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14928	45296	A	15015	1	1853	MGRNQRSRKAENSKNQSASSPP KDCSSSPAMEQSWTENDFDELT EVGFRRSVITNFSELKEHVETNL KEAKHLEKRLDKWLTRIKSVE KILNDLMELKTMAQELHDTCR SFNSQFNQVEERSVIEDQINE MNIDGTYLKIIRAIYDKIPRNII LNQQKLEAFPLKTGTRQGCPLS PLLFNIVLEVLARAIRQEKEIKGI QLGKEEVKLSLFADDMIVYLEN PIVSAQNLLKLISNFSKVSGYKI NVQKSQAFLYTNNRQTESQIMS ELPFTIASRKIKYLGILTRDVK DLFKENYKPLLKEIKEDTNKW KNIPCSWVGRINIVKMAILPKVI YRFNAIPIKLPMTFFTELEKTTL KFIWNQKRARIKLSILSQKNKS GGITLPDFKLYYKATVTKTA/W L/YHTPLSCLPP*WNRTEPSEIIP HIMAVAQIQVKLLLLQGQHA SSRLQPTSSTKCGGWTASSASP RSMGLSSWKGNLASAIHYFPCK PLTLPSRISTSSSSWGCRQAHAV LEVLRWPPGLGWPGWHHLTLL HVPPVRITKSNGPRACTRASAS HARHHQYNQEPSLSPLHSPLPP PEQVLVSTAERTEDRSYHRTL RHSPYFKNEAADLRGEGYSS
14929	45297	B	15016	1	3276	
14930	45298	A	15017	1	2274	
14931	45299	B	15018	440	3383	
14932	45300	A	15019	1	2646	

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14922	45290	A	15009	1	3253	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQGDLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKWKRTEITNYLSDH SAIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLELEKQEQTTHSKASRRQE ITKIRAELEKETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
14923	45291	A	15010	1	2816	MEDEMNMKREGKFREKRIKR NEQSLQEIWDYVKRPNLHLIGV PESDVENGTKLENTLQDIIQENF PNLARQANVQIQEIQRTPQRY SRRATPRHIIVRFTKVEMKEKM LRAAREKGHCNSGKSHRSLWE QNKGIFTTCICDDAEDLQSPSTA GPWFGVLYTKGGPYPQEDIFSE EVHTGPKLRKKIQEYQLTSKWS KSDVQVSVERRMAGGNPNQCH IGEVLLDGFTAIFYRRYKEELV PFLKLFQSIEKEG
14924	45292	A	15011	1	3347	MGDFNIPLSTLDRSTRQKVNDK TQELNSALHQADLIDSYRTLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEITNYLSDHSA IKLELRIKNLTQNCSTTWKLNN LLLNDYWVHNEMKAEIKMFFE TNENKDTTYHNLWDAFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTTHSKASRRQE TKIRAELEKETQKTLQKINESR SWVFERINKIDRPLARLTKKKS EKNQIDAIAKNDK
14925	45293	A	15012	1	3855	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELWEDIQTKGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELHEECRSLRSR CDQLEERVSAMEDEMNMKRE GKFREKRIKRNEQSLQEIWDYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLARQANVQI QEIQRMPQRYSSRRATPRHIIVR FTKVEMKEKMLRAARQKAPH HTYSKIDHIVGSKAL
14926	45294	A	15013	1	2559	
14927	45295	A	15014	1	2956	

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14919	45287	A	15006	1	3891	MKPEIKMFFETNENKDDTTYQNL WDTFKA VCRGKFIALNAHKRK QERSKINTLTSQFKELEKQEQT NSKASRRQEITKIRAELEKETQ KPLQKINESRSWFFKINKIDRP LARLIKKKREKNQIDAIAKNDKG DITTDPTIEIQTITREYYKHLN KLENLEEMDKFLDMYTLPRLN QEEVESLNRPIGTSEIEAIIINSLP TKKSPGPDGFTAIFYQRYKEEL VSFLKLQSIKKEGILLNLFYE DSIILKPKGRDITTKENFRPISL MNIDAKILIKILANRIQQHIKKLI HHQVGFIPGMQGWFNIRKSIN VIQHINRTKDKNHMIIISDAEKA FDKIQQPFMLKTLNKLGIHGT LKIIRAIYDKPTANIILNGQKLK AFPLKTGTRQGCPLSPLVFNIVL EVLAWAIRQEKEIKGIQLGKEE VKLSLFADDMTVYLENPIISAQ NLLKLISNFSKVSGYKINVQKS QAFLYTNNGQTESLIMSELPFTI ASKRIKYLGIQLTRDVKDLFKE NYKPLLNEIKED\TNKWKNIPCS WVGRINIVKMAILPKVIYRFNAI PIKLPMFTFDLEKTTLNFIWNQ KRARITKSILSQKNKAGGITLPD FKLYYTATVTKTAWYQNS MVLVPKQRYRSMEQNRALRN NAACLQLSDL
14920	45288	A	15007	1	4215	MHSLCPDATGEGELYNSLGSLT WSFLSMIGVLLWVDFSGDSIDL CSPLWNRTNLEALQKKLEEL DEQQRKRLEAFLTQKQKVGE KDDDFEKISELGAGNGGVVFK VSHKPSGLVMARKLIHLEIKPAI RNQIIRELQVLHECNSPYIVGFY GAFYSDGEISICMEHMVLLQER PCPGFLWMENSDYGLLLPLDLL LCLSFSFSKVLSDLVSDILIHGM KARNRSIHGDVVVVPELLPKNE WKGRTVALCENDC
14921	45289	A	15008	1	2823	

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14916	45284	A	15003	1	2375	MSGFLISPKHKHGTNSGIVSWA DVQSQLRHIEAAFDQEAAAVL MARLGVFRAESEEGPDVLRWL DRQLIRLHSLTTLDIVPAGKGE VVKGPMSISQQAQKGCQKFGQY NKEDPTSFRLSDSFSLYPQFMF HLRRSPFLQVFNNSPDESSYYR HHFARQDLTQSLIMIPILYSYS FHGPPEPVLLDSSSILADRILLM DTFFQIVIYLGETIAQWRKAGY QDMPEYENFKHLLQAPLDDAQ EILQARFPMTRYINTEHGGSQK KREKNQIDAINKNDKGDITTEPTE IQTIREYYKHLKYANKLESLEE MNKFLDTYTLPRLNQEEVESLN RQITGSEIEAIIINSPTKKSPGPD RFTAKFYQRTNDQKHMIISIDA EKAFDKIQPFMLKTLNKLKID GTYFKIIRAIYDKPTANIILNGQ KLEAFPLKTGTRQGCPPLSLLF NIMLEVLARAIQEKEIKGIQFG KEEVKLSLFADDMIVYLENPIV LAQNLLKLISNFSKVSQYKINV QKSQAFLYTSNRQTESQIMSEL PFTIASKRIKYLGIQLTRDVKDL FKENYKPLLNEIKEDTNKWKNI PCSWVGRINIVKMAILPKVIYRF NAIPIKLSMTFFTELEKTTLEFI WNQKRARITKSILSQKNKAEGI TLPDFKLQYKATVTKTAWYSY QNRDIDQWNRTEPSEIVPCIYN YLIFDKPDKNKKWGKDSL FNK
14917	45285	A	15004	1	1428	
14918	45286	A	15005	2	1975	

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14906	45274	A	14993	687	2274	LRDCKRINQHPVKTDQSAFCK M/API/MQDVVLEVLARAIQEK EIKGIQLGKEEVKLSLFADDMI VYLENPIVSAQNLLKLISNFSKV SGYKINAQKSQAFLYTNNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLKEITEDT NKWKNIPCSWVGRINIVKMAIL PKVIYRFNAIPIKLPMTFFTELE KTTLKFIWNQKRARMAKSILSQ KNKAGGITLPDFKLYYKATVT KTAWYWYQNRDQVQWNRTEP SEITPHIYNLIFDKPDKNKQW GKDSL FNK WG WENWLAICRKL KLDPFLTPYTRINSRWIKDLNV RPKTIKTLEENLDITIQDIGMGK DFMSKTPKAMATKAKIDK WDL IKLKSFCIAKETTIRVNRQPTKW EKIFATYSPDKGLISRIYNELKQI YKKKTNNPIKKWAKDMNRHFS KEDIYAAKHKMKRCSSSLAIRE IQIKTTMRYHLTPVRMAIHKKSG NN/R/CF*WQKPGPSG*ALRSWK EDIAGTSYVGMNQCMRKNTK TLI
14907	45275	A	14994	1	3189	
14908	45276	A	14995	1	3351	MGKKQNRKTGNSKMQSASPPP KERSSSPATDQSWMENDFDEL REEGFRRSNYSELREDIQTGK EVENFEKNLEECITRITNTEKCL KELMELKTKARELREECRSLRS RCDQLEERSAMEDENEMK QEGKIKRDKEGHYIMVKGSIQQ EELTILNIYAPNTGAPRFIKQVL SDLQRDLDSHTLIMGDFNTSLL TLDRSMRQKVNKDTQELNSSL HQADLIDIYRTLHPKSIEYTFFS APHHTYSKIDHIVGS
14909	45277	A	14996	1	3192	
14910	45278	A	14997	1	2742	
14911	45279	B	14998	1	2313	
14912	45280	A	14999	1	1542	
14913	45281	A	15000	1	3300	
14914	45282	A	15001	1	1824	
14915	45283	A	15002	1	2982	

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14905	45273	A	14992	473	2385	HSFLSFIVLMYLTMDLTRSQKH GWASSPSHGTSPWPVRLRTSLA KPCKWQVSLCWLSASPGSSF SLVRSSLLIIVPHAESVSRRPSLL SRVGLFPARY*HRVWQRSPSPQ TRDHLIKRNPSQDV*RRQQPRG TRVSNKCSLHTSALGIGRQPSC DATL*GQQGLP/VK*KRQQPAP/ MSQQQTGAALEVLARAIRQEK EIKGIQLGKEEVKLSLFADDMI VYLENPTVSAQNLLKLISNFSK VSGYKINVQKSQAFLYTNNRQ TESQIMSELPFTIASKRITYLGIQ LTRDAKDLFKENYKPLLKEIKE DTNKWKNIPCSWVGRINIVKM AILPKEPGWARSLVFGARGLQG QGRCGQSRGGGGSCLGGGGST ENWQHREPSARKTGSTENRRH REPAAPRTGSTENQHREPAAPR TGTENRHREPSARKTGSTENRR HREPAAPRTGSTENQHREPAAP RTGTENRHQEPAPRTGGTENR QHREPAAPRTGTENRQHREPAP RTGSTENRQHREPAPRTGSTEN RQHRESAAPRTGSTENRHQEP APRTGTENRHREPSAPRTVGTE NRRHREL VAPRTGGTENRPREP PAGTRPRHTPMRGGSEGALFH QRRFLEPTPDREQLEGIRYPPVA

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14903	45271	A	14990	1	1716	MKA EIKMFFETNENKDTTYQN LWDTFKA VCRGKFIALNAHNR KQERSKIDLTLSQLKELEKQEQ TYSKASRRQEITKIRAELEIET QKTLQKINESRSWFFERINKIDR PLARLIKKKRQKNQMDTIKND KGDITTDPTIEIQTTVREYYKHL YTNKLENLEEMDKFLDTYTLPR LNQEEVESLNRPIITGAEIVAIINS LPTKKSPGPDGFTAIFYQRYKE ELPGRDTTKEENFRPISLMNIDA KILNKILANQIQQHIKKIIHHDQ VGFIPGMQGWFNIRKSINVIQHI NRAKDKNHMIMSIDA EKA FDKI QQPFMLKTLNKL VLEVLARAIR REKEIKGIQLGKEEVKLSLFAD HMIVYLENPIVSAQNLLKLISNF SKVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFRENYKPLLKEIK EDTNKWKNI PCSWVGRINIVKV AILPKVIYSFNAIPIKIPMPFFTEL EKTTLKFIWNQKRARIAKSILSQ KNKAGAITLPDFKLYYKPTVTK TAWYSYQNRDVIDQWNRTEPSE ITPHIYNLIF
14904	45272	A	14991	1	702	

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14898	45266	A	14985	1	2067	MELKTKARELREECRSLRSRCD QLEERSVSAMEDEMNEKREG KFREKRIKRNEQSLQEIWDYVK RPNLHLIGVPETDGNGTKLEN TLQDIIQENFPNLRQANVQIQE IQRTQPORYSSRRATPRHIIVRFT KVEMKEKMLRAAREKEIQTTIR EYYKHLHANKLENLEEMDKFL DTYTLPRLNQEKVESLNRPTG AEIVAIIN/SLPTKKSPGPDGFTA EFYQRGILPNSFYEASHILIPKLG RDTAKKENFRPISLMNIDAKILN KILAKRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSINVIQHVNR KDKNHMIISIDEEKAFDKIQQPF MLKTLNKLIDGMYFIIIRAIYD KPTAHILNGKKLEAFPLKTGM RQGCPLSPLLFNIVFKVLARAIR QEKEIKGIQLGKEEFKLSLFADD MIVYLENPIVSAQNLLKLISNFS KVSGYKINVQKSQTFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLKEIK EDTNKWKNIPCSWVGRINIVK MAILPKVIYRFNAIPIKVPMTFF TELEKTTLKFIWNQKRACIAKSI LSQKNKAGGITLPDFKLYYKAT VTKTAWYWYQNRDIDQWNRT EPSEITPHIYNYLIFDKPEKNKQ WGKDSL FNKWCWENWLAICR KLKLDPFLTPYTKINSRWIKD
14899	45267	A	14986	1	1293	
14900	45268	A	14987	1	3229	
14901	45269	A	14988	1	3352	
14902	45270	A	14989	1	1419	

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14887	45255	A	14974	1	1240	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGMQGWFNICKSI NVIQHINRAKDKNHMIIISDAEK AFDKIQQPFMLKTLNKLIGDGM YFKIIRAIYDKPTANIILNGQKLE AFPLKTGTRQGCPLSPLLFSIVL EVLARAIRQEKEIKGIQLGKKE VKLSLFADDMIVYLENPIVSAQ NLLKLISNFSKVSQYKINVQKS QAFLYTNNRQTESQIMSELPFTI ASKRLKYLGIQLTRDVKDLFKE NYKPLLKEIKEDTNKWKNIPCS WVGRJNIMKMAILPKVIYRFNA IPIKLPMPPFFTELEKTTLKFIWNE KRARIAKSIPSQKNKAGGITLPD FKLYYKATVTKTAWYWYQNR DIDQWNRTEPSEITPHIYNLIF DKPEKNKQIQKAFILHKEPWV MWNMGNTNR
14888	45256	A	14975	1	2241	
14889	45257	A	14976	1	2802	MYGTGYRDVAGKWAIDPDSK REFLDVTQEGIQGCDFSGTCRQ TLSILTQPLRQWGLEGIKKPN WIIEESVSNGGPPLLIPQTAS GVDLQQTPDQLRLVLTVRRK TNKQKGIASSTKRTSTPKPHL YVTIHKDQSYIKPQRWGKNIAE KLKILKIRVALSLQRNAAPHQQ WNKAGRRMSLMSSQKKASEVI ESQMNEIKGEEKFREKRVKRNE QSLQEIWDYVKRPDLRLIGVPD SDGENGTRLENTLQDI
14890	45258	A	14977	1	2739	
14891	45259	A	14978	1	2478	
14892	45260	A	14979	590	727	
14893	45261	A	14980	1	3255	
14894	45262	A	14981	1	3810	
14895	45263	B	14982	1	3127	
14896	45264	A	14983	1	3325	
14897	45265	B	14984	1	1734	

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14877	45245	A	14964	1	832	MPHVCAQRRLPVA AVLPPDGA QNCILLAGLSAGTFCHHGGVHI LLSNPVA TSLLVAIDRVGQIPPP PPPPALPYDCCCPPPSRHTEDRE HVPIPLHWKLMVNRWFLPVPT EWIATLSNSSRSSRTCSMQGLSF LDSQVHLKAMIEDLRGNVSKES SPCLADNADVGQFPMEGGQKD PKQRIIPFCQGVTNLSGPHGPGA VCGGSHYQKQESSEISLSVGQV WTSSRRMSQVGGSSHCRGARL GPCNVPRRPDGVQDEFSLQPEE DAG*QTSVDPMVLEQYVVVA/ NYQKQESSEISLSVGQ/VVDIIE KNESGWVFW/STAEQGWVPA TCLEGQMGC RMSFLCSLKKML DWIQR RVSL
14878	45246	A	14965	1	346	
14879	45247	A	14966	157	413	ALVCS/SSLAI REMQIKTTMRYH LTPVRMAIIKKSGNNRCWRGC GEIGTLLHCWLDCKLVQPLWK SVW*FLRNLELEIPFDPAIPLL
14880	45248	A	14967	1930	5781	RAKSPANIIMTGSNSHITLTLN VNGLSNPIKRHLASWIKSQDP SVCCIQETHLMCRDTHRLKIKG WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYMMV KGSIQQEELTILNMYAPNTGAP RFIKQVLSDLQRDLDSHTLIMG DFNTPLSTLDRSTRQKVNKDTQ ELNSALHQADLIDIYRTLHPKST EYTFFSAPHHSYSKIDHILGSEA LLSKCKRTEIITNYLSDHSAIKL ELRIKNLTQSR
14881	45249	A	14968	1	2235	
14882	45250	A	14969	1	2148	
14883	45251	A	14970	1	1821	
14884	45252	A	14971	1	1248	
14885	45253	B	14972	4	2121	
14886	45254	A	14973	1	1137	

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14870	45238	A	14957	434	1790	GNFFRKTISACIISVLSYLVSLR GASPTASMDFCCLKTSKREAR ASRKICFVCKKKGAAINCQKDQ CLRNHFLPCGQERGLPFTIFWR VQIIL*QTSP/EHRTSNMGHVGE ESCILCCEDLSPTECLRTFQSPC CSQAIYHRKCIQ/TNMPHQS HFFKCPQCNNRKEFPQEM/REN GNSYSRQRCCLGTRARGFLRLI SALSAL*CPHLVCMNKAETALR MKGGGASFCVLHADPTEPTGT APLLDLTVRNGSVRSVHL/PAA TDYIPENSGDIPCCSSTFHPEEHF CRDNTLEENPGLSWTDWPEPSL LEKPESSRGRRS/VLLEVQGCQ NH*QLQKIQVTPSE*LLVPHNR V*TCAPPSGLGREHSGTVRQGS RASSETMS/LSKEKSQWSMRRE QSRCQQGNAFMATRVPLLSPL LPPRILPP*SCFHMPLLTSPMFV VMQIKVFSPKKKKK
14871	45239	A	14958	146	484	
14872	45240	A	14959	228	353	
14873	45241	A	14960	214	722	TARELPGRVLKEMYIQK*EGA ALGRPTRPGRQGQVRRAECR RLFRGVLRPCNRC
14874	45242	B	14961	1	951	
14875	45243	A	14962	241	517	QSCGQRLPTVLR/PLRTPWILPM YPQPLPAGGPTPCLRSRPYINITI LKGDKGDPGPMGLPGYMGRE GPQGEPPG*GSKGDKGEMGRP RRPVP
14876	45244	A	14963	748	1055	DRKQTS PGDAYHTIPGSLSSSSD HVLSEPD*GEGSHL**SVQHDD VPPTA**RLQY\RAVVLFPTATL PAILIM*GMRCPVPRNCSTW TAQIRAYIEVQQT

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14865	45233	A	14952	1	1513	MIIALQKESLMSLQAQLDKALQ KEKHYLQTTITKEAYDALSRKS AACQDDLTTQALEKRTGRDWNP PPFRTQQRGSKSLTAIRPLCLFR KLNHVTSETKSLQQSLTQTQEK KAQLEEEIIAYEERMKKLNTL RKLRGFHQESELEVILYEEEMG NHNENTGEKLHLAQEQLALAG DKITSLERSLNLYRDKYQSSLS NIELLECQVKMLQGELGGIMG QLSKTSSDLSKM/RCY/TTW*M WTKLQFIHSILTSVIFHLLSFSSM GSI*KWIMALSGSSFLDDAHYIS QFGPRQLPSVCAEPEKEKATDG VVRNGKSTAGHQRYLCSHCRK TWQLQFTYTASQPAGQ*RHRL RG\MDEQWGYVGAKSRQRWLF YAYDSLRLKTVVAHHREQGSIK CKLEEDLQEATKLLEDKREQLK KSKEHEKLMEGELEALRQEFK KKDKTLKENSRLKEENENLR AELQCCSTQLESSLNKYNTSQQ VIQDLNKSPMEIRFQLYIFTPDQ
14866	45234	A	14953	125	363	INVSVWSQPFPGG*QPEKGLKE HPADARPGSC\PPAGRVPVQGRA EVASAAPP RGSSPAAAPGQSH PSCLRAPLYWSFSR
14867	45235	A	14954	306	583	TCSTRRRKNDLSVKYVSVWSQ PFPGG*QPEKGLKEHPADARPG SC\PPAGRVPVQGRAEVASAAPP RGSSPAAAPGQSHPPSCLRAPL YWSFSS
14868	45236	A	14955	225	407	LRGMVTFSPFSSILNGQFEPNSG CPL/CPVCWVCLREPGDPEKLG EFLQKDNISVHYFCLVS
14869	45237	A	14956	484	722	NTCRCGHNRSPEVNSRRGGLRS IPRMPDAGSCS/PPAGRPSAGPG RRSPPLLP RGSSPAAAPGQSH PSSSQGA AVL

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14857	45225	A	14944	1	333	LNLVLFQQRaelmis*PQ*FSRA LLVIFPLLQTELQQLFLLHVNP AAVEAPPSVPIGLYSENVNRNR LPETVIRVKQPALARFSPDIAPL FVHFRADDDVTARRVEKRCK
14858	45226	B	14945	1	1794	
14859	45227	A	14946	1183	1899	LNRRDSYVEYLADKVAADREED AEEYLEAIMEARVTVAGMGLV MEVQDYFDGEADRLAKAWLA EYTPQIKSLKDERKEAYRQIVE MSTEPQDVDLVRPANKFEMTR VREGEKEADLPVWKHHL/SV*R KRELSGSVEPLGNQVFEIETKRE NS*EL**KSLKDERKEAYRQIVE MSTEPQDVDLVRPANKFEMTR VREGEKEADLPVWKHLLCDE SGNYPALLNHWETRFLRSKPN VKIHRSSDKSPTYFVFISQYDL PAFYPINGHFLVERVVKVRIVFI EEFADHHHLAIFQFNNRLQRHA FVVTLANVTNQPFSSVVVVVNL
14860	45228	B	14947	1	3099	
14861	45229	A	14948	1174	1545	
14862	45230	A	14949	1	945	
14863	45231	A	14950	62	576	
14864	45232	A	14951	1	1642	MLANIGFYNSNVIHRSKGAIGE GPPDPRGIVEQNLGGDISIPCYN GPRPRRSAQKTTLGPLNQPRIPS AQCAGAFPRVAAAGAGGGGG GGSGGSGFCLGWRLRRRRQRR RRWRRGEGEGDGDAGHMRPR PAGRAEARRRRRLRGNPPPGAR LPNREGNGSGVSWAAEVSGDG RGARTEAARTRRRPGGADNYP GAVPPVQLLTGWCVTAKAPPDI SAISALTAVKHGNCSSLTPLLNP PGSDVIVCAEMDEQWGYVGAK SRQRWLFYAYDSLRTVVAHV FGERTMATLGRLMSLLSPFDVV IWMTDGWPLYESRLKGKLHVI SKRYTQRIERHNLNLRQHLARL GRKSLSFSKSVELHDKEELAAL FSELKQEKKVDELIKLVKNR TRIVNESDVFSWVIRREFQELR HPVDEEKARCLEGIGGHTRGLV ASLDMQLEQAQGTRELAQAE\ LCWNSSEMRTTMSSSGSSTPWP PVSRRRPWTERRLGSVRGDRLR ERSRPAVNRTPRMSRVPAGAPR GTPSRRWMMKCWDHQMGRG LVEEEVG

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14846	45214	A	14933	1	1429	MVLAAGDPVEKGITWARENAG IYISCTMMKLSMIPGDQSYRNL IPLKFVACILIEGNAKCWPLPEF DPSQIRLIVYQDCERRGRNVLF DSSVKRRNEDISVSRIKYLGIQL TRDVKDLFKENYKPLLNEIKED TNKWKNIPCSWIERINIVKIAILP KKLGSDAQVKVFGKCCQLKPG GDSSSSLDSSVTSSSDIKDQCLK YQRTVDLSAQLSSSGKGQTTSS SGSLTPMTPHWEIPPSGGQQTSS HTGELRLASGRGSSGMKLPEEG TDRNLCCSAASSGDTQANRDW SGPPANTSRPAAEGPDCDRENG TKLENTLKDIHENFPNIARQAN IKIQEIQRTQQRYSRRATPRHII VRFTKVEMKEKMLRAAGEKH WVIHKGKSIRLTVDLAETLQA RREWG\PIFNVLKEKNFQLRISY PAKLSFISEGEMKSFPEKQMLR DFVTIRLALQELLKEALNMARE /NR*QPLQKHM
14847	45215	A	14934	2320	2811	ESKLTRGVKDLFRENYKPLLNE IKRGHKQMEEHSMLMGRKNQ YREKWPYLPKVN*IQCHPHQA TNDCFHRIGKLL*SSYGTKKE PALPSQS*DKRTKLEASHYLTSS NYTTRLQ*PKQHRYWYQNRDI DQWNRTEASEIMPHIYTILILWT NLRKTSMERHP
14848	45216	A	14935	2	872	
14849	45217	A	14936	769	828	
14850	45218	B	14937	1	669	
14851	45219	A	14938	1	807	
14852	45220	B	14939	35	212	
14853	45221	A	14940	235	837	QQAHKTPQRRHSAFTEYVRNN RLPETVIRVKQPALAIFSPDIAPL FVHFRADDDVTARVIHAIMIF WCDRVEKRVSDAVACFTLESEI AEVGVLCRTHIRQ*RQVTPARM *ALSRILHACRSEDVRHNRPYP VIRVKQPA\RRDLAPT*PHCSSIS AQTITSLPGCMREVT/ELRPEFF K*RKTVLRPTPIMRARAERRCK
14854	45222	C	14941	1	1755	
14855	45223	A	14942	1	747	
14856	45224	B	14943	1	2466	